





Long Duration Exposure Facility Experiment M0003 Deintegration Observation Database

Prepared by

S. R. GYETVAY, J. M. COGGI, and M. J. MESHISHNEK Mechanics and Materials Technology Center Technology Operations



17 February 1993

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SPACE AND MISSILE SYSTEMS CENTER AIR FORCE MATERIEL COMMAND Los Angeles Air Force Base P. O. Box 92960 Los Angeles, CA 90009-2960

Engineering and Technology Group

THE AEROSPACE CORPORATION El Segundo, California

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This technical report has been reviewed and is approved for publication. Publication of this report does not constitute Air Force approval of the report's findings or conclusions. It is published only for the exchange and stimulation of ideas.

DONALD C. JOHNSON, JR.

Captain, USAF

Chief, Test Planning Division

WM KYLE SNEDDON, Capt, USAF

Deputy Chief

Industrial & International Programs Division

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SUMMARY

This report summarizes the extensive photographic and electronic observation database compiled during the disassembly of The Aerospace Corporation M0003 Materials Experiment that was aboard the NASA Long Duration Exposure Facility (LDEF) spacecraft. The LDEF was deployed by Space Shuttle into low Earth orbit (LEO) in April 1984, and was retrieved in January 1990. The M0003 Experiment contained more than 1600 material test samples from various organizations, including the Aerospace Laboratories, DoD Laboratories, and other government contractors. The M0003 test samples included a variety of current or baseline spacecraft materials such as thermal control coatings, laser optics, polymer composites, structural materials, laser communication components, dosimeters, antenna materials, contamination monitors, solar cells, fiber optics, and electronic piece parts.

This report describes the M0003 experiment and the deintegration effort at The Aerospace Corporation. It gives an overview of the contents of the M0003 sample database in diagrammatic form. In addition, the contents of the database are condensed in two tables in the two appendixes to this report: one providing a list of the sample complement by Database Number with an abbreviated description of the samples and their post-flight condition, and the second, giving the sample complement sorted by spacecraft application. The M0003 Deintegration Observation Database is available to requestors on a 3 1/2 in. floppy disk (in 4th DimensionTM for the Macintosh format) for more complete examination of the contents.

Through its Corporate Archives, The Aerospace Corporation is distributing individual database records and prints of photographs taken to document the post-flight condition of the M0003 trays and samples. The records and photographs of the test samples are valuable because they are of spacecraft materials that were retrieved and physically examined after extended exposure in the <u>natural</u> space environment, a very rare event. A few examples of the over 3,000 color photographs (although in black and white) and an example of an observation record are shown in this report. Information on how to order copies of the photographs and records or to request disk copies of the M0003 Deintegration Database is also provided.

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PREFACE

The authors express their sincere appreciation to the Space Test Program (SMC/CUL) for funding the M0003 deintegration and to Lt. Col. M. Obal of the Strategic Defense Initiative Organization SDIO/TNI, Materials and Structures, and Lt. M. Jones, W. Ward, and K. Davidson of Wright Laboratory Materials Directorate for funding the database portion of this work. We would like to thank the NASA Langley LDEF Science Office for their unstinting support to our project. We also wish to acknowledge the contribution of the following individuals to this effort: Col. J. Armstrong, R. Bachus, D. H. Barker, G. W. Boyd, R. A. Brose, W. C. Burns, W. H. Childs, L. G. Clark, A. F. DiGiacomo, L. Fishman, E. L. Galvin, C. S. Hemminger, Capt. D. Johnson, J. L. Jones, H. K. A. Kan, W. H. Kinard, C. Kiser, F. Knight, A. Levine, B. Lightner, N. Marquez, G. D. Martin, L. A. Okada, R. O'Neal, K. W. Paschen, C. Rochester, H. T. Sampson, T. A. Stoner, W. K. Stuckey, T. K. Tessensohn, G. A. To, H. E. Wang, D. B. Wisehart, and J. C. Uht.

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I. INTRODUCTION

In 1990, after extended exposure to the space environment, the NASA Long Duration Exposure Facility (LDEF) was retrieved from low Earth orbit (LEO) by the Shuttle Columbia. The LDEF, shown in space just after deployment in Figure 1, is a 12-sided, 30-ft. long, 14-ft. diameter, unmanned spacecraft. It was deployed by the Space Shuttle Challenger into a near circular orbit at 476 km altitude, 28.5° inclination, on 7 April 1984. Originally intended for an 11 month stay in space, a backlog in the NASA launch schedule delayed the LDEF recovery until 69 months had elapsed. LDEF was retrieved in a decaying orbit at 332 km. During the 69 months exposure, materials on the LDEF were subjected to ~12,000 hours of solar UV, 32,422 thermal vacuum cycles, an electron dose of 2.5 x 10⁵ Rads, a proton dose of 1.6 x 10³ Rads, and thousands of micrometeoroid and space debris impacts.

The LDEF was gravity gradient-stabilized and therefore maintained a constant orientation with respect to the velocity vector on orbit. Only those experiments on the side of the spacecraft facing into the velocity vector (leading edge) received a significant atomic oxygen dose (maximum 9 x 10²¹ atoms/cm²). Atomic oxygen effects often overshadowed or completely removed the damage due to UV exposure on leading edge materials. The leading edge experiments were impacted by space debris and micrometeoroid particles by an order of magnitude more than the experiments on the wake side (trailing edge) of LDEF. The largest crater produced by hypervelocity impact was 5.25 mm in diameter and was found on structural hardware on the spaceward-facing end of LDEF.

II. THE AEROSPACE CORPORATION M0003 EXPERIMENT

One of 57 experiments flown on the 86 experiment-holding trays arrayed around the LDEF, M0003 was the most comprehensive materials experiment. It occupied four of the experiment trays. The M0003 experiment, planned and integrated by The Aerospace Corporation Mechanics and Materials Technology Center, was designed to study the effects of the space environment on 1978 current and developmental spacecraft materials. M0003 was a collection of 20 subexperiments from The Aerospace Corporation laboratories, Air Force and Navy laboratories, and Department of Defense contractors, and was fielded under the sponsorship of The Aerospace Corporation Mission Oriented Investigation and Experimentation (MOIE) program, the Air Force Space and Missile Systems Center (then SAMSO) and the Space Test Program. The compilation of the deintegration observation database was funded in part by The Aerospace Corporation MOIE program and the Strategic Defense Initiative Organization (SDIO) with Wright Laboratory through the SDIO Space Environmental Effects Program. The M0003 subexperiments, each with the current point of contact, are summarized in Table I.

A. M0003 TRAYS AND SAMPLES

The M0003 hardware consisted of four peripheral "ys, two experiment power and data systems (EPDS), two environment exposure control canisters (EECC), and several Li/SO₂ batteries to satisfy power requirements. The experiment was equipped to record temperature, strain, quartz crystal microbalance (QCM) frequency, solar cell output, fiber optics output, circuit interrogation, and various data system parameters. The trays were flown in pairs; one pair consisting of a 6-inch deep tray (carrying an EPDS and a canister) that was connected by wiring harness to a 3-inch deep tray (carrying mostly sample coupons). One tray pair was located on the LDEF leading edge and a similar pair was located on the trailing edge. Aerospace designated the trays as "L3", "L6", "T3", and "T6", according to the tray depth and leading or trailing edge location. Later, NASA assigned the trays to an exact location on the LDEF and adopted a nomenclature that designated the trays according to their row and ring location (shown in the schematic in Figure 2). Thereafter, the trays were known as "D9" (L3), "D8" (L6), "D3" (T3), and "D4" (T6). The Aerospace tray designations had already been incorporated into a unique identification code that the M0003 integrators had assigned to each sample. The code was used extensively in the preflight coordination and planning documentation for the M0003 experiment and could not easily be changed thereafter.

The design of the trays was modular; a system that allowed samples to be thermally coupled or decoupled from the tray and the LDEF structure. Each tray had six modules, designated by Roman Numerals I through VI. Most test samples were mounted on black-anodized aluminum hardware plates on the modules. Many samples were apertured, therefore, exposed versus unexposed portions of their surface could be compared. The samples on the M0003 trays included a variety of paints, coatings, laser optics, composite structural materials, laser communication components, dosimeters, antenna materials, contamination monitors, solar cells, fiber optics, and electronic piece parts. Nearly all of the samples can be informally grouped into five material types: thermal control, polymeric, optical, structural, and solar power materials. Figures 3 through 7 show diagrams delineating the M0003 sample complement by these types. Post-flight photographs of the four trays before deintegration of the samples and maps showing the layout of the samples on the modules are presented in Figures 8 through 15. Figures 16 through 19 show post-flight photographs of the open canisters with

sample maps. Preflight photos are available for all four trays and the open canisters loaded with the samples, but are not included in this report. These photographs are available in black and white or in color.

Most M0003 subexperiments included samples that were exposed for 69 months duration on at least one of the four trays and many subexperiments contained duplicate sample sets on the leading and trailing edge trays. A few subexperiments included sets in the canisters as well. Some subexperiments also contained a set of flight control samples that were mounted within the modules, and therefore were not directly exposed to the space environment.

For the 69-month duration of the LDEF exposure in LEO, the four trays of samples experienced somewhat different environments, depending on their location on LDEF (shown in Table II). Measurements made following LDEF retrieval revealed that, on orbit, the vehicle had been oriented so that Row 9 was 8° off normal to the spacecraft velocity vector (Refs. 1 and 2). The solar exposure values in the table are combined direct sun and earth-reflected radiation (Ref. 3). All trays on LDEF experienced the same number of thermal vacuum cycles, but temperature ranges varied, depending on the particular thermal control design of each experiment. Temperature monitoring devices showed a temperature range of -50 °C to 120 °C at the extremes. Most materials experienced more moderate temperature cycling. Materials on the leading edge trays, D8 and D9, were struck by an order of magnitude more hypervelocity particles than impacted the trailing edge trays, D3 and D4 (Refs. 4 and 5). The largest diameter hypervelocity particle-produced crater on M0003, shown in Figure 20, was a 2.5 mm dia, puncture through the Chemglaze A-276-coated, 40 mil-thick aluminum sunshield covering the EPDS on the D8 tray.

B. ENVIRONMENT EXPOSURE CONTROL CANISTERS

The canisters on trays D4 (T6) and D8 (L6) were closed (O-ring seals) preflight and were programmed to open in three stages to obtain different intervals of exposure on certain materials. Two weeks after the LDEF deployment, the canisters opened to expose a large (~3/4 area) of specimens. The next canister stepped movement occurred approximately 23 weeks after deployment and exposed an additional row of samples (~1/8 additional area). The final canister stepped movement was at approximately 33 weeks and exposed the last row of samples (1/8 area) by opening to the canister's fullest extension. The canister drawer returned to the completely closed position at 42 weeks after initial opening and remained closed during the remainder of the LDEF mission. Thus, varying exposure times of 9, 19, and 40 weeks were obtained for some samples in addition to the full mission exposure of 69 months for duplicate samples on the other M0003 trays. The canisters were opened in the clean room at Aerospace roughly 51/2 months after LDEF retrieval. LDEF special investigation group (SIG) personnel were present during this event and assisted in sampling the canister gases and in helium leak testing of the seals. The canisters had lost vacuum and were both essentially at atmospheric pressure when opened; some leakage of the front seals was detected.

III. THE M0003 EXPERIMENT DEINTEGRATION

As Principal Investigator for the M0003 experiment, The Aerospace Corporation Mechanics and Materials Technology Center was charged by the Space Test Program with documentation of the handling and disassembly of the M0003 experimental trays and with providing support to the subexperimenters. The support included full photographic documentation of the trays, modules, and quarter-modules from the earliest stages of retrieval through the complete deintegration of the trays, photographic documentation of the condition of the individual samples, packaging and return of the samples, and providing flight data to the subexperimenters. The deintegration tasks were documented in a relational computer database, 4th DimensionTM for the Macintosh computer, as the disassembly proceeded.

A. INSPECTION AT KENNEDY SPACE CENTER

The deintegration began with inspection of the M0003 trays at Kennedy Space Center after the removal of LDEF from the payload bay of the Shuttle Columbia to the Spacecraft Assembly and Encapsulation Facility II clean room at Kennedy. Observations were recorded and NASA photographic surveys were made to document the condition of the trays and samples following their reintroduction into the earth environment (air, humidity, gravity, etc.). The condition of flight control samples and the samples in the canisters could not be recorded as they were not accessible for inspection. Following the photographic surveys, Experiment M0002, which occupied Module VI on both D3 and D9, was removed from the trays before they were shipped to Aerospace.

B. DISASSEMBLY AT THE AEROSPACE CORPORATION

The four M0003 trays were shipped by air freight to The Aerospace Corporation and unpacked and disassembled in a class 10,000 clean room facility. Of the over 1600 samples on the trays, 1275 were individually examined at Aerospace. Boeing Aerospace had two subexperiments that occupied entire modules (Module V on D3 and Module V on D9). These subexperiments were not disassembled at Aerospace.

As test samples were removed from the other modules, they were individually examined by optical microscopy and photographed, preserving the orientation of the samples as mounted on the LDEF. Many of the samples experienced space environment-induced damage such as crazing, surface roughening, discoloration, erosion, contamination staining, and hypervelocity impact crater formation. Not all samples exhabited discernible changes, however. Observations of the condition of the samples were made by a single examiner who maintained consistent criteria for the qualitative descriptions of all of the M0003 samples in the visual inspection and in the optical microscopy examination. Important effects were photographed using optical microscopy at magnifications from 3X to 1000X. A Wild-Heerbrug stereomacroscope and a Zeiss Axioplan Pol research microscope were used for the examinations. Bright-field, dark-field, and Nomarski differential interference contrast microscopy techniques were used in the examinations. The observations of the condition of the samples were entered in real time into the computer database.

The objective of the microscopy examination of the M0003 materials samples was to provide the subexperimenters with a quick-look summary of effects observed on their samples that could assist them in planning their post-flight investigations. Another objective of the microscopy exami-

nation was to provide a record of the post-flight condition of all samples in the event that some subexperiments were not claimed by the original investigators. The observations made in the microscopy examination must be considered preliminary as this survey was only the first step in performing detailed analysis on the materials. In-depth analysis of the effects of space exposure on the samples was the prerogative of the subexperimenters and was not the role of the examiner or the deintegration team.

IV. THE M0003 DATABASE

A. OBSERVATION AND PHOTOGRAPHIC DOCUMENTATION

In the deintegration task, all M0003 samples were given a simple Database Number that corresponded to the more complex Aerospace Sample Identification Code permanently assigned to each sample in the preflight documentation. All entries into the database were keyed on these two identifiers, as illustrated in Figure 21. The Database Number in the example shown is 73. The Aerospace Sample Identification Code contains the M0003 tray location for that sample, the Roman numeral of the module on which it was mounted, its subexperiment number, the sample location number on the module, and the sample designation given it by the subexperimenter. In the example shown, the sample, L3II-7-65-10, is a specimen that was flown on tray L3, the leading edge 3-in, deep tray (D9) on Module II. It was part of subexperiment 7 and occupied sample position #65 on Module II (see Figure 9). It was designated as "10" by the principal investigator of the subexperiment. Either the Database Number or the Sample Identification Code can be used to retrieve the sample record which contains information identifying this sample as a ZnS optical coating on a fused silica substrate. The physical dimensions of the sample, the post-flight observations, and the address of the current point of contact are also given in the record. The photographic portion of the database is for the use of the Corporate Archives. It contains the data on the number and type of photographs taken of the individual sample as well as the conditions (lighting, magnification, etc.).

Over 3,000 macrographs and photomicrographs were made to document the condition of the M0003 trays and the individual samples. Overall photographs of the trays, modules, and quartermodules, (front and back) were shot with large format print film in color and black and white. The post-flight tray photographs in this report (Figures 8, 10, 12, and 14) are examples of such photographs. As individual samples were dismounted from the modules, the underlying tiers of the module hardware were photo-documented to display their condition. In addition, photographs of leading and trailing edge module hardware placed side-by-side were made for visual comparison of contamination staining, erosion, discoloration, etc. Photomicrographs made during the optical microscopy examination were recorded on high-resolution 35 mm color print film. The prints of Database Number 73 in Figure 22 are examples of the types of photographs made to document the condition of the samples. Not every sample was photographed in this detail. The observation record for this sample is shown in Figure 23. This sample is a ZnS optical thin-film coating on a fused silica substrate. The ZnS coating buckled and probably flaked during the 69 months of exposure to the space environment. In addition, minute ring-like features were observed on the buckled surface at high (200X) magnification. Photographic prints and the accompanying observation records can be requested for particular samples (using the Database Number or Sample Identification Code) from the Aerospace Corporation Corporate Archives.

B. OBTAINING DATA AND PHOTOGRAPHS

The contents of the M0003 Deintegration Observation Record Database are condensed in two tables in the Appendix to this report. One table lists the sample complement by Database Number and gives a sample description and a brief description of its post-flight condition for each. The second table gives the same sample list sorted by spacecraft application. Many samples fall into several application categories. These tables can be used to identify samples of interest. Someone interested

in obtaining photographs of materials that show specific effects, i.e., graphite epoxy composites that have impact craters, could survey the description and post-flight condition columns in the first table to find many examples of such materials that are "cratered." Someone interested in adhesives used in bonding thermal control materials on the other hand, could look through the applications table to find thermal control materials that also were listed as adhesives. The Database Number of samples of interest could be noted and then consulting the first table using the Database Number, the description of the samples and their post-flight condition could be found. The location of the samples, leading edge or trailing edge, could be determined from the Sample Identification Code of each. If photograph prints and hard-copy records were desired, the Database Numbers could be entered on the Aerospace Form to request all photographs and records pertaining to those particular samples.

In addition to sample photographs and records and the condensed tables in this report, the entire M0003 Deintegration Observation Record Database is available to requesters on a 1.4 MB (HD) floppy disk in Macintosh 4th Dimension™ format. The database was streamlined to fit on the disk by omitting the photographic portion of the database. A user instruction text file is provided on the disk. The text file contains an explanation of the criteria used by the examiner in compiling the deintegration observations on the samples. The database structure file contains various layouts for searching through the contents of the database data file by Database Number, Sample Identification Code, or by Spacecraft Application. Searches may also be made by material, damage effects, categories, or text strings. Records in the data file include the dimensions of the samples, the descriptions of the composition and construction of the samples, the observations made at Kennedy Space Center, the deintegration observations, and the current subexperiment contacts for additional information on the samples (also publication lists, when available).

The Aerospace Corporate Archives maintains a copy of the complete database to coordinate requests for photographs of specific samples. Aerospace Form 5365 is provided at the end of this report to facilitate requests. Requests should be sent to the Aerospace Corporate Archives, P. O. Box 92957, Mail Station M2/326, Los Angeles, CA 90009-2957, phone (310) 336-5319; FAX (310) 336-5912. The requester should be as specific as possible in stating the type of information desired (e.g., color prints of full trays, black and white photographs of certain modules, color micrographs of a specific sample, and data records). This service will be provided as long as resources allow.

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Table I. Summary of M0003 Subexperiments.

Subexperiment number	Scope	Subexperiment Point of Contact	Organization/ Address
-1	Radar camouflage materials and electro-optical signature coatings	Charles Hurley	Univ. of Dayton Research Inst. 300 College Park Dayton, OH 45469-0001
-2	Laser optics	Linda De Hainaut	Phillips Lab/LIDA Kirtland AFB, NM 87117-6008
-3	Structural materials	Charles Miglionico	Phillips Lab/PL/VTSI Kirtland AFB, NM 87117-6008
-4	Solar power components	Terry Trumble	Wright Labs/POOC Wright Patterson AFB, OH 45433-6533
-5	Thermal control materials	Charles Hurley	Univ. of Dayton Research Inst. 300 College Park Dayton, OH 45469-0001
-6	Laser communication components	Randall R. Hodgson	McDonnell Douglas Astronautics Corp. Mail Code 1067267 P. O. Box 516 St. Louis, MO 63166
-7	Laser mirror coatings	Terry M. Donovan	3481 Murdoch Dr. Palo Alto, CA 94306
-8	Composite materials, electronic piece parts, fiber optics	Gary Pippin	Boeing Aerospace Co. Materials technology Dept., MS 2E-01 P. O. Box 3999 Seattle, WA 98124
-9	Thermal control materials, antenna materials, composite materials, and cold welding	Brian C. Petrie	Lockheed Missiles & Space Co. Dept. 62-92, Bldg. 564 P. O. Box J04 Sunnyvale, CA 94086
-10	Advanced composite materials	Gary L. Steckel	The Aerospace Corp. P. O. Box 92957, M2/242 Los Angeles, CA 90009
-11, -12	Contamination monitoring, Radiation measurements	Eugene N. Borson. F. B. Sinsheimer	The Aerospace Corp. M2/270
-13	Laser bardened materials	Randall R. Hodgson	McDonnell Douglas Astronautics Corp. Mail Code 1067267 P. O. Box 516 St. Louis, MO 53166
-14	Quartz crystal microbalance	Donald A. Wallace	QCM Research 2825 Luguna Canyon Road P. O. Box 277 Laguna Beach, CA 92652
-15	Thermal control materials	Oscar Esquivel	The Aerospace Corp. M2/241
-16	Advanced polymer composites	Gary L. Steckel	The Aerospace Corp. M2/242
-17	Radiation dosimetry	Sam S. Imamoto, J. Bernard Blake	The Aerospace Corp. M2/260
-18	Thermal control paints	Christopher H. Jaggers	The Aerospace Corp. M2/271
-19	Electronic Piece Parts	Seymour Feuerstein	The Aerospace Corp. M2/244
-20	Tray Hardware	Michael J. Meshishnek	The Aerospace Corp. M2/271

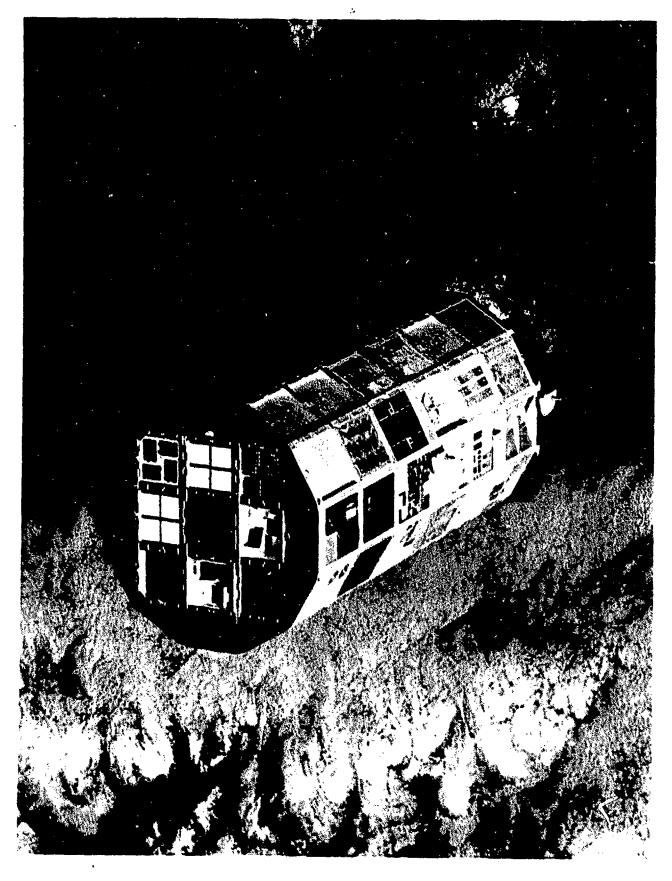


Figure 1. The LDEF in space just after deployment by the Space Shuttle Columbia (April 1984).

LDEF Surface Nomenclature

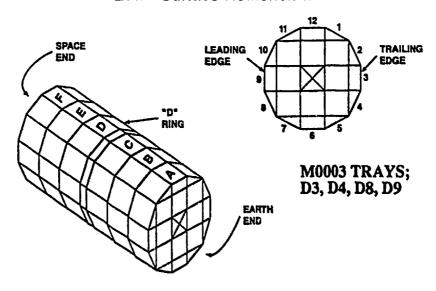


Figure 2. Diagram of LDEF showing row and ring nomenclature.

Table II. Environments Experienced by Samples on the M0003 Trays

Tray	AO (atoma/cm²)	Solar Exposure (hr)	Thermal Cycles
Leading edge D9	8.99E+21	11,155	32,422
Leading edge D8	7.15E+21	9,409	32,422
Tri iling edge D3	1.32E+3	11,110	32,422
Trailing edge D4	2.31E+5	10,458	32,422

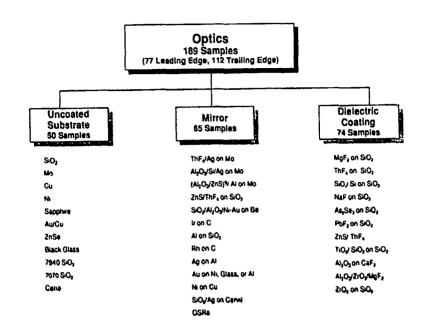


Figure 3. Diagram of optical samples in database.

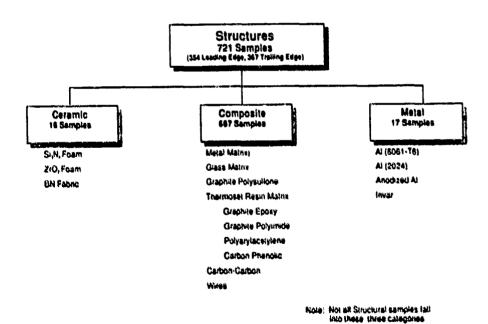
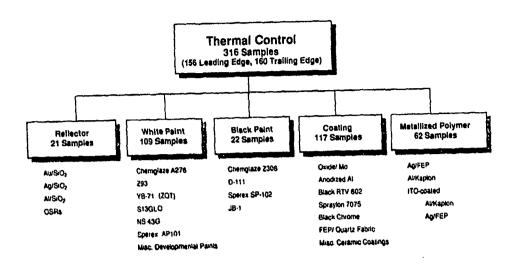


Figure 4. Diagram of structural samples in database.



Note: Some Thermal Control samples fall into several categories

Figure 5. Diagram of thermal control samples in database.

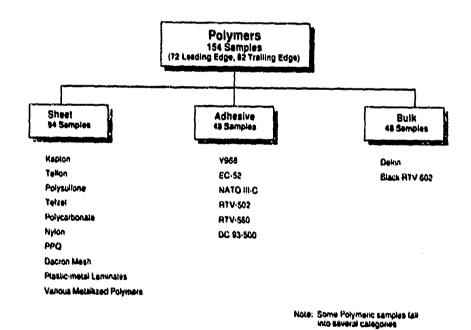
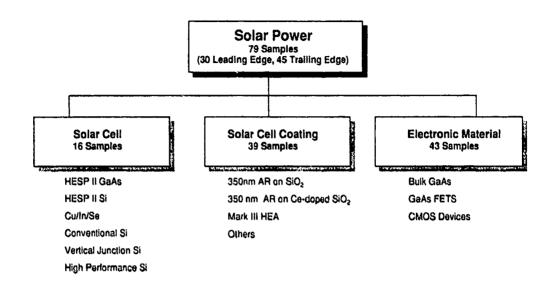
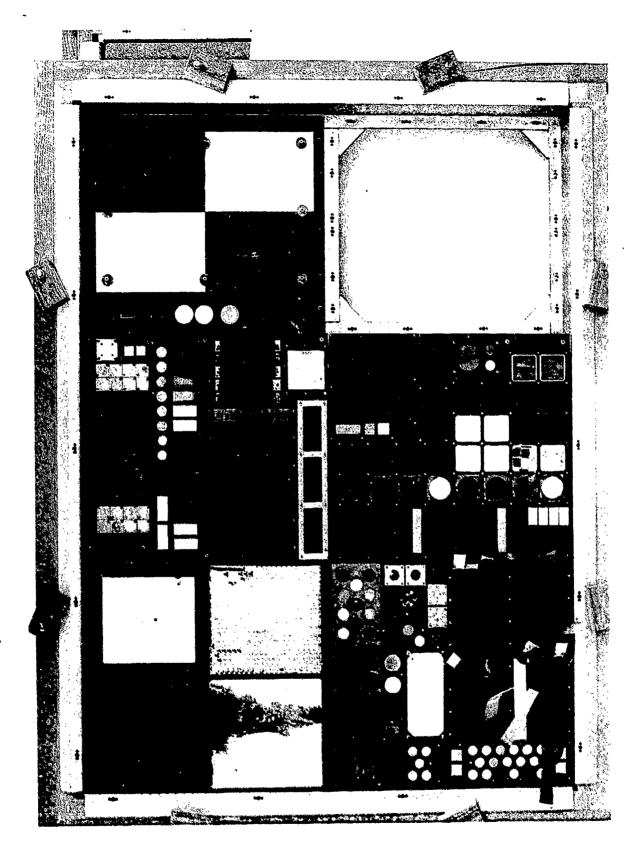


Figure 6. Diagram of polymeric samples in database.



Note: Not all Solar Power samples fall into these three categories

Figure 7. Diagram of Solar Power samples in database.



SPACE (side farthest from Earth)

D10 (side adjacent to D10)

Figure 9. Diagram of sample layout on leading edge 3-in. tray, D9 (L3).

EARTH (side nearest Earth)

Figure 10. Post-flight photograph of the trailing edge 3-in. tray, D3 (T3)

3

2

2

PASSIVE EXPERIMENT **SAMSO 802-8**

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AF GEOPHYSICS LAB PASSIVE COSMIC RAY DETECTOR

1

3332

E 9 9 9

SPACE (side farthest from Earth)

AF NOS CRL-258 NASA NOS MODO2

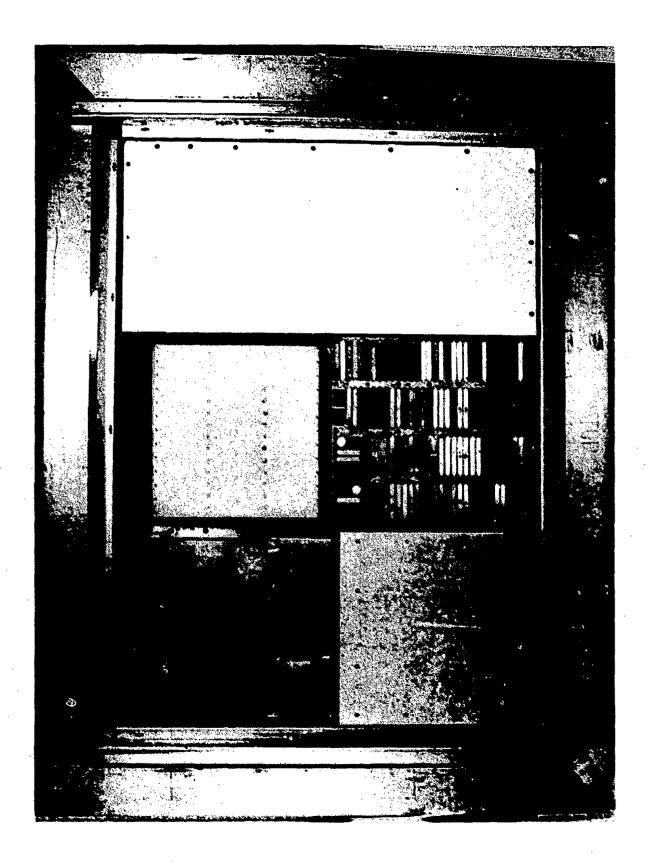
D4 (side adjacent to D4)

(

Z

Figure 11. Diagram of sample layout on trailing edge 3-in. tray, D3 (T3).

(dhe3 rearest Earth)



SPACE (side farthest from Earth)

Figure 13. Diagram of sample layout of the leading edge 6-in. tray, D8 (L6).

EARTH (side nearest Earth)

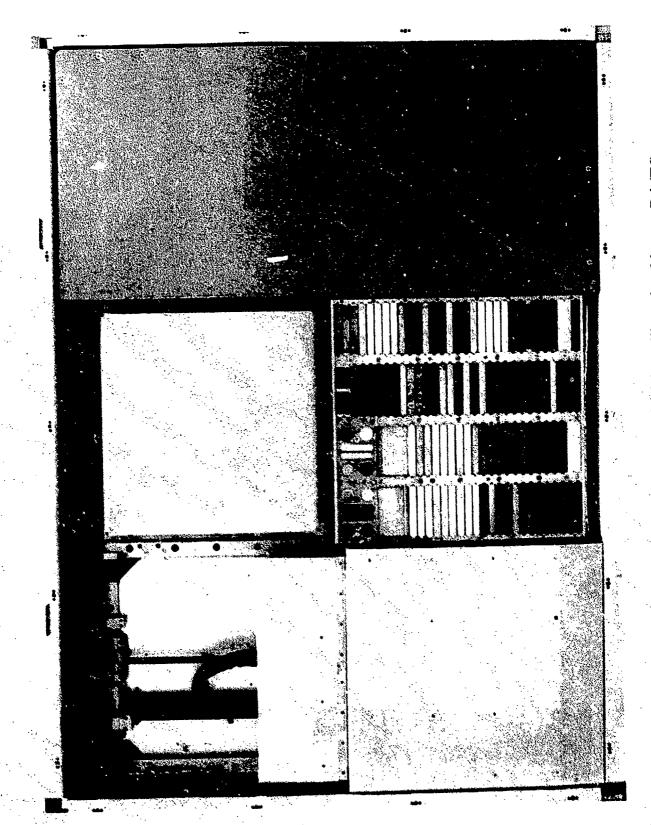


Figure 14. Post-flight photograph of the trailing edge 6-in.tray, D4 (T6).

D3 (side adjacent to D3)

EECC

2

SPACE (side farthest from Earth)

E E C C DRAWER CONTROL

EARTH (side nearest Earth)

DATA PROCESSOR

EE CC HOUSING

7.5 VOLT SYSTEM

SIGNAL CONDITIONING UNIT

D5 (side adjacent to D5)

TAPE RECORDER

0

Figure 15. Diagram of sample layout of the trailing edge 6-in. tray, D4 (T6).



Figure 16. Post-flight photograph of open leading edge canister (Tray D8, Module VI).

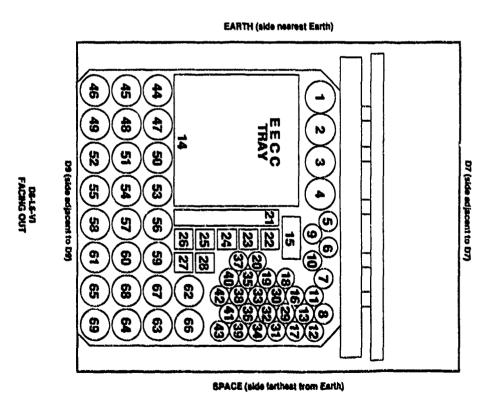


Figure 17. Diagram of sample layout on leading edge canister (Tray D8, Module VI).

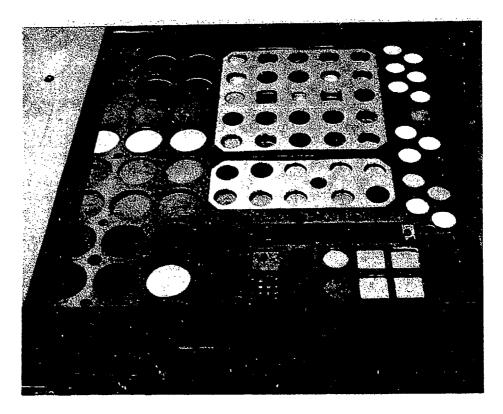


Figure 18. Post-flight photograph of open trailing edge canister (Tray D4, Module VI).

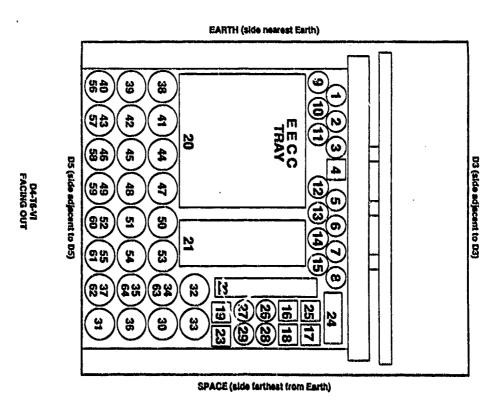


Figure 19. Diagram of sample layout on trailing edge canister (Tray D4, Module VI).



Figure 20. View of two hypervelocity particle impacts to the Chemglaze A276-painted sunshield on leading edge Tray D4 (L6). The puncture is 2.5mm in diameter. The second impact created a small crater surrounded by an exfoliated zone in the atomic oxygen-eroded paint.

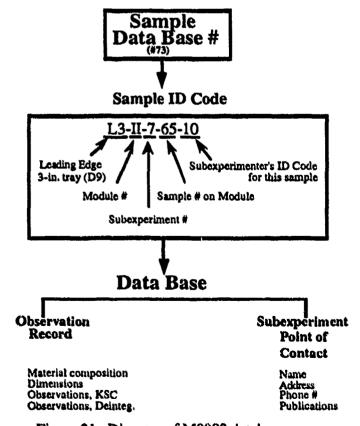
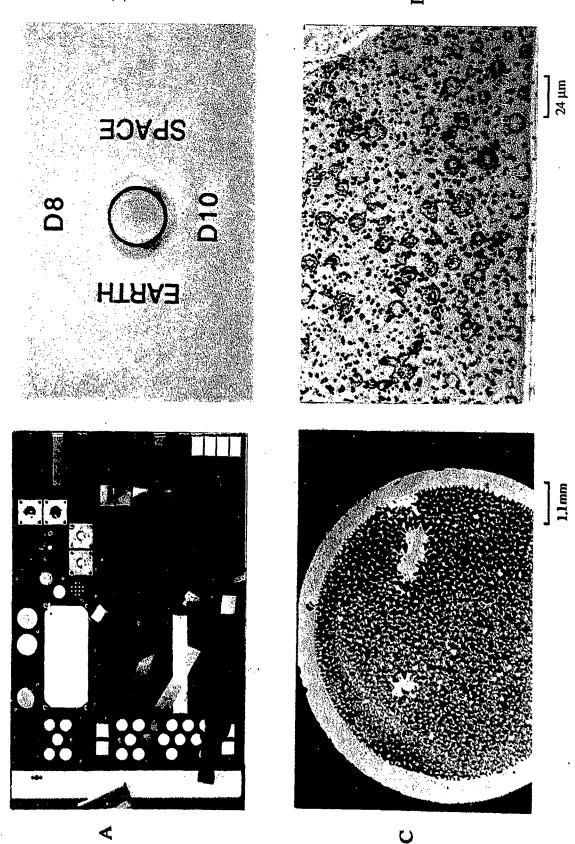


Figure 21. Diagram of M0003 database.



View C. Low magnification micrograph of buckled coating on surface of DB#73. View D. High magnification micrograph of annular features on buckled coating on DB#73. Examples of macrographs and micrographs that can be ordered from archives. View A. Macrograph of Module II on Tray D9 (DB#73 resides on this module). View B. Sample macrograph of DB#73 (L3II-7-65-10, ZnS coating on fused silica Figure 22.

LDEF M0003 Sample Observation

Tray: D9

Sample ID: L311-7-65-10

Module: ||

Description: ZnS coating on SiO2 substrate

Experiment: 7

Database #: 73

0.375

Exposure: 69 months

Post-flight Condition:

Width: Length Thickness

0.100

Buckled (+), delaminated

Category:

Coating, glass Subcategory: Coated substrate

Application:

Optics

Observations at KSC Before De-Integration:

SURFACE CRACKED, FLAKING

Observations at The Aerospace Corporation: Date Tuesday, May 15, 1990

The exposed coating appears uniformly buckled; some areas have buckled so severely that the coating has flaked. In the flaked areas, the residual surface (the substrate) is smooth. Another phase appears to have nucleated on the top of the buckled surface. This phase is manifested, in various stages of formation, as crescent-, ring- or circular-shaped features on the surface.

Point of Contact:

Publications:

Terry Donovan

1. T. M. Donovan, J. M. Bennett, and S. Gyetvay, "Space Environmental Effects on Coated Optics," Proceedings of the First Post-Retrieval Symposium, Kissimmee, FL, June 2-8, 1991, NASA Conference Publication

3134, Part 3

3481 Murdoch Dr.

Stanford (000) 000-0000

94306 FAX: () 000-0000

> Mechanics and Materials Technology Center THE AEROSPACE CORPORATION



Figure 23. Example of hard copy database observation record (DB#73).

APPENDIX A

M0003 DATABASE CONTENTS LIST

Č			Post-Flight Condition	
	+			_
	1 L31-1-1-C	Resonant reflector	Eroded (+), cratered	
.•	2 131-1-2-0	Circuit analog sheel	Discolored (+), cralered	
·	3 L31-5-3-A	Capacitive grid	Eroded (+). cratered	
-	4 131 1.4 8	Resonant window	Eroded (+). cratered	
	5 L31-9-5 CW1	Bendix JT06R plug & JT02R receptacle mounted on At with Ti and Ag-plated stainless steel hardware	Unchanged	
_	6 L31 9.6-CW2	Bendix JT06R plug & JT02R receptacle mounted on At with Ti and Ag plated stainless steel hardware	Unchanged	
-	7 L 31 9 7 CW3	Bends J106R plug & J102R receptable mounted on Al with Tr and Ag-plated stainless steel hardware	Unchanged	
-	8 L31 9 8 CW4	Bendx J106R plug & J102R receptacle mounted on At with Ti and Ag plated stainless steel hardware	Unchanged	
•	9 (311 5 1 C1	Tetton FEP/Aginconel, 2 mil Sheldahl	Embrilled, eroded crazed cratered	
ž	10 L311 5 2 C2	Tellon FEP:Agrinconel. 5 md. Sheldahi	Embrilled eroded, crazed flaked	
-	11 (311 5 3 C3	Kapton/Al 1 mil Sheldahl	Eroded, cratered	
	12 L 311 5 4 C4	Kapton/N. 5 mil Sheidahl	Eroded, cratered	
	13 1311 5 5 C5	Tellon FEP type A. 5 mil	Eroded, embrittled	
-	14 L3H 5 6 C6	Tefton FEP:Agrinconel (5 mily/Eccobond 57C/Kapton (5 mil)	Eroded, crazed, flaked	
-	15 (2)1 5 7 C7	Tellon FEP/Agracconel (5 mal)/RTV 560+12% graphite/Kapton (5 mil)	Eroded, crazed, flaked	
-	16 L311.5 8 CB	Tellon FEP/Agrinconel (5 milyRTV 550+12% graphite/Kaplon (5 mil)	Eroded, crazed, flaked	
-	17 (31) 5 9 C9	Tellon FEP/Agrinconel (5 mil):RTV 560-12% graphite/Kapton (5 mil)	Eroded crazed flaked cratered	_
	18 L 311 5 10 C 10	Tellon FEP/Ag/Inconel (5 mil) ATV 560+12% graphile: At: Kaplon (5 mil)	Eroded crazed, flaked	
5	19/2311-5-11-011	Tellon FEP/Agrinconel (5 mil)//966/Kapton (5 mil)	Eroded, crazed, flaked	
~ ~	2011.311 5 12 C12	Tenon FEP/Antinconel (5 mil/NATO IIIC/Kapton 85 mil	Eroded, contaminated (particle),cratered	
. ~	21 1311 5-13-013		Eroded	
~ ~	22 L 311 5 14 C14	Teizel 500AE 5 md	Eroded, embrittled	
N	23 L 311 5 15 C15	Polycarbonate 5 mil	Eroded, embrittled, cratered	
N	24 (311 5 16 C16	Potyphenylsulfone R 5000, 10 mil. Union Carbide	Eroded, embrittled, contaminated (stain), cratered	
Ň	25 (1311 5-17 81	Opical Solar Reliector, OCLI SI-100	Corroded, contaminated (particle)	
Ñ		with conductive coating	Hazed, corroded, cratered	
~	27 L311 5 19 A1	Quartz (abric 581 (Astroquaitz)/Teflon FEP/Al General Electric	Unchanged	
Ñ	28 L311 5 20 A2	Indium-Tin oxide/Tellon FEP/Ag/Incone), 5 mil. Sheldahl	Eroded	
8	29 L311 5 21 A3	Porcetain enamel on Al, NASA Marshall Space Flight Center	Discolored ()	
m	30 L3II-5 22 A4	Indium I'm oxide/Tellon FEP/Ag/Inconel, 2 mil. Sheldahl	Textured	
m	31 L311 5 23 AS	Black paint, Ditt. IITRI	Crazed, contaminated (particle)	
m	32 L311-5 24 A6	7 µm quartz labric chemical and heat cleaned (+ 450 °C), adhesive bond/Al, General Electric	Unchanged	
m	33 L311-5-25-A7	Teffon FEP/Agrinconel, 2 mil. Sheldahi	Eroded (+)	
e	34 L311-5 26-A8	Teñon FEP/Agilnconel, 5 mil. Sheldahi	Eroded	
e	35 L3H-5-27-A9	In2O3/Teffon FEP/Ag/Inconel, 5 mil, General Electric	Microfractured	
m	36 L311 5 28-A10	Kapton/Al, 1 mil, Shekahi	Eroded	
m	37 L311 5 29.A11	Kapton/Al. 5 mil, Sheldahl	Eroded	
C	38 L311 5-30 A12	In2O3/Kapton/At, 5 mil, General Electric	Unchanged	
6	39 L3H 5-31-A13	White paint, 293, IITRI	Cralered	
•	40 L311 5 32 A14	White paint, St3GLO, IITRI	Discolored (·)	

Post-Flight Condition	Crazed, whiskered			ML101, Air Porce Maleriais Laboraiory	Contraction of the contraction o	DANADAG	(+) Corroded (+)	Corroded (+). cralered	602. ML101 Air Force Materials Laboratory	PV160 TrO2/stitcone resin. ML101 Air Force Materials Laboratory	2. ML101 Air Force Materials Laboratory	O2:RTV 3140. Rockwell Ini	OZ/RTV 3140. Rockwell Int	robatance (QCM) active, 150A In2O3/9000A At+At2O3	obalance (OCM) passive, 150A ZnS/9000A Al+Al2O3	ster, Lif Cratered		Contaminated (particle) cratered		ssette holding 9 laser communication detectors	Cralered	2 thick/lused silica substrate	Oxidized (+). hazed, cralered	1 06)/2 thick/ molybdenum substrate	(+) Oxidized	copper	Microfractured, cratered	e	Microfractured ().	Microfractured ().		Microfractured (+).			6-1104 to aluminum substrate		Discolored, contaminated (stain, particle)	ng on polished molybdenum substrate	aling on polished molybdenum substrate Crazed, flaked, cratered	
Description	DAII of Co.	White parts, 16-71, 11111	X.	White paint, Eu203/RTV 502, ML101, Air	Au mirrot/Al	Al mirror/glass	Ag mirror: Al	Ag mirror/Al	White pami alpha-Al2O3.RTV 602, ML101	While paint PV100 TrO2/sticone resm. N		White pain DC92 007 TrO2/RTV 3140, Rockwell Inl	White paint DC92 007 TrO2/RTV 3140. Bockwell Int	Coaled quartz crystal microbalance (QCM)	Coated quartz crystal microbalance (OCM)	Thermokuninescent dosimeter. Life	Low scatter black glass	Alumnized fused sitica mirror	Low scaller nickel mirror	Ssell	Fused SiO2	ing. tambda (1 06)	Poisshed motybdenum	lambda (Dramond-furned copper	Diamond turned nickel coated copper	Solar cell coating	Solar cell coaling	Ai203 coaling on SiO2 substrate	Si coating on SiO2 substrate	NaF coaling on SiO2 substrate	ThF4 coating on SiO2 substrate	SiOx coaling on SiO2 substrate	ZnS coating on SiO2 substrate	Rhodum foil bonded with DC 6-1104 to alu	tridium toil bonded with DC 6-1104 to aluminum substrate	Polished molybdenum mirror	Sputtered black rhodium coating on polished molybdenum substrate	Sputtered black indium coating on polished molybdenum substrate	
		41 L311-5-33-A15	42 L311-5-34 A16	43 L311-5-35 A17	44 1.311-5-36 83	45 1311 5 37 84	46 L 311 5 38 B5	47 L 311 5 39 B6	481 311 S 40 A18	49 1 3 1 1 5 41 A 19	50 1 3tl 5 42 \$20	511 311 5 43 421	52 i 3ii 5 44 A22	52 1 316 54 45 12	54 1 311 54 46 6	55 1 21 12 47 1	561.311 11 48 BG01	205 67 11 11 60 507	58 L 3 H 11 50 NO1	59 31 6 51 V	60 5311 2 52 006	61 1311-2 53 010	62 L 3H 2 54 M18A	63 L3H-2-55 N24B	64 (311 2 56 8688	65 1311 2 57 10	66 L3# 4 58 SC1	67 L311 4 59 SC2		69 (1311-7-61-3	70 1311-7-62 5	71 1311 7 63 6	72 1311-7-64-9	73 1311-7 65-10	74 L311-15 66 A1	75 L3II-15-67-B1	76 L311-15 69-C1	77 L3II-15-69-D1	78 L311-15-70-E1	

00	Sample 10	Description	Post-Flight Condition
8		Black thermal control paint. D111/Al, IITRI	Bleached, crazed, llaked, cratered
	716 48.74 6	20Se evetal	Discolored, cratered, contaminated (particle)
	83 311 18 75.J	Polophenykumoraline (PPO) (i/m on Al	Eroded
38	84 L3H 15 75 K	Southered black rhodium coaling on molybdenum substrate	Crazed, Ilaked, contaminated (stain), cratered
. 80 80	85 (1311 15 77 L1	Sputtered black chrome coating on molybdenum substrate	Oxidized, flaked, cratered
98	86 L311 15 78 M1	Black glass coaling on molybdenum substrate	Oxidized, flaked, cratered
83	87 L3H 15 79 NI	Sputtered black chrome coating on molybdenum substrate	Oxidized, flaked
88	88 L 3111 9 1 CM25	GY70:CE 399 (0:(90)2:0)4T 250 F	Eroded
89	89 1.3111 9 2 CM43	GY70-CE 339 ((0)2/(90)2)T 250°F	Eroded
96	90 L 3111 9 3 CM6b	150 F263 (0/(90)2/0)4T 350 F	Eroded, cralered
16	91 L3111 9 4 CM8a	T50.F263 ((0)2/(90)2)T. 350 F	Eroded, cralered
92	92 L3111 9 5 CM 10c	1 50 (PAN):934(0:(90)2:0)4T. 350 F	Eroded, contaminated (stain)
8	93/L3III-9 6-CM143	T 50 (PANJ/X904B 19(90(2)/0) 4T, 350 F	Eroded, cratered
96	94 L3III 9 7 CM18a	T 50(PAN)/E788(O/(90)2/O)4T, 350'F	Eroded
95	95 L 3111 9 B CM42b	Kevlasiegosy K49 labricX904B ((0)2/(90)2)T. 350 F	Eroded
96	96 L3III 9 9 CM44a	T-50:F263 (0/(50)2/0)4T, 300'F	Eroded, cratered
97	97 3111 9 10 CM30b	Celion 6000/E788(0/(90)2/0)4T. 350"F	Eroded, cralered
3	98 L3111 9 11 CM3a	GY70/CE 399 (+45/(45)2/+45)4T 250 F	Eroded, cratered
	95 L 3111 9 12 CM7a	150/F263 (+45/(45)2/+45)47	Eroded
100	100 L 3111 9 13 CM11c	T 50 (PAN)/934/+45/(45)2/+45/4T, 350 F	Eroded
101	101 L3III.9 14 CM15d	T 50(PAN)/X904B-10(+45/(45)2/+45)4T 350 F	Eroded, cratered
102	102 L3111-9-15-CM19a	T 50(PANJ/E788(+45/(-45)2/+45)4T, 350 F	Eroded, contaminated (particle)
103	103 L3III 9-16-CM38c	KEVLARJepoxy 49 labric/X904B (±45)4S. 350 F	Eroded, contaminated (particle), cratered
101	164 Lain 9 17 CM45d	T 50/F263 (+45/(-45)2/+45)4T, 300°F	Eroded
105	105 L3III 9 18 CM31d	Celion 6000/E788(+45/1-45)2/+45)4T. 350°F	Eroded, cratered
106	106 L3111 9 19 AB1 2	HMF 330C:934-2024-HMF 300C:934 (9628), 250°F	Eroded, cratered
101	107 L3111 9 20 AB1 5	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	Eroded, cratered
108	108 L3111 9 21 AB1 7	HMF 339C/934-2024-HMF 330C/934 (9628) 250°F	Eroded, cratered
109	109 L3III 9 22 AB1 9	HMF 330C/934 2024-HMF 330C/934 (9628). 250°F	Eroded
110	110 L3111 9 23 CM12	T 50(PAN)/934 ((0)2/(90)2)T. 350°F	Eroded
111	111 L3111-9-24-CM16	T 50[PANJ/X504B 10[[0]2/[90]2]T . 350°F	Eroded, distorted, cratered
112	L3111 9 25-CM20	T 50(PANI/E788((0)2/(90)2)T. 350°F	Eroded, distorted
113	L3111 9-26-CM28	HMS/3501 5A((0)2/(90)2)T. 290°F	Eroded, cratered
114	L3111-9-27-CM46	TSD/F263 ((0)2/(90)2)T. 300°F	Eroded, distorted, cratered
115	L3111-5-28-CM32	Celion 6000/E788/(0)2/(90)217, 350°F	Eroded, distorted
116	L3111-9-29-AWIE	Goló plated woven Dacron mesh	Eroded, cratered
11.	117 L3111 9.30 AM2E	Gold plated hairted Dacron mesh	Eroded
118	118 L3111-9-31-AM3E	Plastic metal mesh taminate	Eroded
513	119 L3111 9 32 AM4E	Solid plastic-metal laminate	Eroded, cratered
12(120 L3111 9 33 AMIA	Gold plated woven Dacron mesh	Eroded

-		Post-Flight Condition
OR Sample to		papora
121 L3111 9.34 AM2A	Gold-plated furthed Dacron mesh	Erodod cralered
122 L3III 9 35-AM38	Plastic metal mesh taminale	
123 L3111 9 36 AM4D	Solid plastic metal taminate	Coded. conteminated (narticle)
124 13111 3 37 111	Graphite polymide	
125 13111 3 38 111	Graphike polyimide	
126 L3111 3 39 VI	Special carbonitingston bearing resin	Erodod stalered
127 L3111 3 40 VI	Special carboniungsten bearing resm	Discolpred crafered
126 13111 3 41 1163	Aluminum 2024 Ali'Cu alloy	Discussion control
129 1 3111 3 42 1113	Aluminum 2024 Alicu alloy	Discolored. Clareted
100 Y 17 100 1000	Anodyod alumnum mounting plate with MOS devices	
30 4 C 4 C 111 C 110 C C	MOS Dower	Eroded, contaminated (particle), cratered
20 A 11 to 111 to A1 A 62	MOS Descr	
70 4 64 64 64 67 60 664		contaminated (particle).
Color		(particle).
130 04 L 3111 19 43 A 04	MUCS UPWARE	Discolored, contaminated (particle), cratered
130 05 L3H 19 43 A 05	KUS Uever	Discolored, contaminated (particle), cratered
130 06 L 3111 19 43 A 96	MOS Devoes	Discolored, contaminated (particle), cratered
130 07 L 3111 19 43 A 07	MOS Devices	Discolored, contaminated (particle), cratered
St 10 03 L 1fff 19 43 A 05	MOS Dence	Discolored, contaminated (particle), cratered
130 09 L3HI 19 43 A.09	MOS Device	Discolored, contaminated (particle) cratered
130 1 L3H 19 43 A 10		Contamination (particle), cratered
131 L311 19 44.B 00	Anodized aliminum mounting plate with GaAs FETs but GaAs	
131 01 1311 19 44 8 01	GaAs FETs bush GaAs	Corroded contaminated (particle)
131 02 13111 19-44 8 02	GaA's FETs, bulk GaAs	contaminated
131 03 L3H 19 44 8 03	GaAs FETs, buth GaAs	contaminated
131 94 E3H 19 44 8 06	GAAS FETS built GAAs	
131 05 L311 19 44 B 05	GaAs FETs but GaAs	Constant contaminated (narticle)
131 05 L3111 19 44 B 05	GaAs FETs, bufk GaAs	Company contaminated (particle)
131 CAL 3111 19 44 B 07	GaAs FETs, buth GaI/s	
131 08 L3H 19 44 B 08	GaAs FETs, bulk GaAs	Containinated (particle) cratered
131 09 L 3H t9 44 B 3539A	SA GAAS FETS, bulk GAAs	
111 11 11 11 19 44 B 3635B GAAS FETS, but GaAs	IB GaAs FETs, buff GaAs	Contaminated (particle), cratered
31 90 T 1117 1 200	Abrenia RACOTA	Cratered .
7 6 6 111 1 2 F 1	Armenia 6060 TC	Cratered
20 F 7 10 F 3 1 F 3	Description and the District And	Eroded
200 Mg 6 200 Mg 100 Mg	Duration purchase Date. Carb Alt	Eroded
TIA GW THIEL GEL	y country and a second	Eroded, cratered
13613111 3 49 1		Eroded
137 1311 3 50 1	Tape-erapped carbon phenolic	Eroded
VI 12-6-11103-801	Graphile polysulione	Froded, cratered
139 L3HE 3-52-(V	Craphile polysulione	Froded (-)
140 [2311 3 53 11	Three dimensional quartz phenolic	

\$6 0	Sample 10	Description	Post-Flight Condition
141	1 1 2 3 11 11	Three-dimensional quant: phenolic	Eroded (·)
•	142 L 3111 & 55 30	Graphis-polymide (1875.2 unidisectional tape/PMR 15 (01))	Eroded, cratered
71	143 1311 8 58 10	Graphisispory (* 100 unidiectional Lapaifiberite EA934 epoxy resin (0-1)	Eroded, cratered
71	114 E 3111 B 57 S12	Suegn nitede 2 layer sandench (foam tayer 0.45" thick skin tayer 0.03" thick)	Contaminated (stain)
71	145 6311 6 56 52	Skicon cande, 2 layer sandwich (loan layer 0.45' thick shin layer 0.03' thick)	Contaminated (stain)
7	166 1.3111 11 59 561	Aluminged luxed when muce	Unchanged
7	147 (2111 11 60 1	2ns minima plane	Discolored, craters, contaminated (particle)
2	2 19 21 1111 18 61 2	Themakuninescent darmeter. Life	Discolored
*	X 29 11 111L 1 65 X	Coming 1940 tecting salider aluminum mistor	Flaked contaminated (particle) cratered
2	150 LTHE 9 63 CREAD	GY70.CE 1131.45% 45/2/*45j47 250 F	Dulled
51	151 L 381 9 64 CM26	1 50:55631.45.4 (5)2.45141	Discolored
2	152 Laur 9 65 CM116	t 5010anj 9341-454[4512 . 4514T 350 F	Discolored ()
15	153 t 3111 9 66 CM 15a	e sofpanificacab eclassication and property	Discolored ()
	154 1 311 9 67 CM 196	t soipanije7asi 45% 45121 + 45147 350 f	Discolored ()
Ą	155 1 300 9 68 CM384	KEVEARAGOS KAS LIBERCADOAB (145/45) 150 F	Darkened
5	156 13111 9 69 CMASe	1 50/F261 (+45/[45/2-45/4] 300 F	Dulled
	157 Lam 9 20 CM316	Ceiren 6000.E7881-45/(45/2"-45/4T 350 F	Duffed
39 39	158 L 3111 9 21 AB1 11	HMF 330C.934 2021 HMF 330C.934 (9628) 250 F	Discolored ()
13	59 LJIII 9 72 AB1 12	HAF 112C-914 2024 FOAF 110C-914 (9628) 250 F	Discolored ()
16	160 E 3111 9 73 AB1 13	HW/ 110C-914 2024 HWF 110C-914 (9628) 250 F	Discolored ()
2	16: Lam 9.74 ABr 14	HMF 220C/914-2024 HMF 130C/914 (9628) 250°F	Discolored ()
16	162 e un 16 75 E	Composite (unknown libermatrix)	Eroded
2	163 L 37V 4 1 1	Standard 356 am coathog/1940 lossed after Delin intainer OCL!	Hazed (+), contaminated (particle)
91	164 1314 4 2 5	Relbetive 350 nm coating/7940 fused silvor. Delini retainer OCL!	Hazed (+). contaminated (particle)
51	6 C P ATE 1 591	Rollegive 350 om coaling/CERIA Debin cetanor, OCLI	Hazed (+). contaminated (particle) cratered
ğ	166 L 31V 4 4 13	Reliective 150 nm costing/7940 fused silica. Delins returner OCL!	Hazed (+). contaminated (particle)
31	167 L 31V 4 5 17	HEA 3.1 coating/7340 lused sitca. Delino relainer OCLI	Hazed (+). contaminated (particle), cratered
91	168 LIIV 4 6 24	Mark III D coaling/7946 lused silica. Dehm retamer OCL1	Mazed (+), contaminated (particle)
3.	169 L 31V 4 7 25	Mark III E coaling/1940 lused silea, Delun relainer, OCLI	Microfractured, contaminated (particle)
1.1	170 L 31V 4 B 29	Confamination coaling/7940 luxed staca, Delim retainer, OCLI	Hazed (+). contaminated (particle)
1.3	171 L3W 4 9-33	Erosion casting/1940 fused silica. Debin retainer. OCLi	Hazed (+). contaminated (particle)
1.7	112 C31V 4 10 37	Erosian coaling/1940 lused silica. Defin retainer. OCU	Hazed. contaminated (particle). cratered
	173/L31V 4 11 41	Mark IV coating/7946 hosed salica. Dekin retainer, OCL1	Contaminated (particle), cratered
4.3	174 L 31V 4 12 45	Consumnation coating/7940 http://doi.org/10/10/10/10/10/10/10/10/10/10/10/10/10/	Eroded, cratered
17	175 LJW 4 13-49	7070 limed sifica, Defin retainer, OCLI	Hazed, contaminated (particle), cratered
21	176 L 31V 4 14 52	1946 fused silica, Dekin retainer, OCLI	Delaminated
£3	177 L 31V 4 15 57	7940 lurad silica. Dekin retainer, OCLs	Contaminated (particle), cratered
13	178 L31V 4 16 61	Cena. Defirir returner, OC.1	Contaminated (particle)
(1)	123 631 416 12 1	White thermal control paint. StackCicost At 117R1	Discolored (). crazed
11	160 1217 18 18 2	White Insural control paint. StageQuidolt At. 11791	Discolored (). crazed

å	Cample III	Description	Post-Flight Condition
			1
181	181 L31V-4-19-A	HESP II silicon cells, 5 cell string	
182	L3IV-4-20-GA1	HESP 11 Ga As cells, 5 cell string	•
183	183 L31V-4-21-VJ1	Vertical junction sificon cells, 5 cell string	Microfractured, cratered
184	L3IV-4-22-B	High performance silicon cells. 5 cell string	Microfractured, cratered
185	L3IV-4-23-X3	Conventional siticon cells. 5 cell string	Microfractured, debonded, contaminated (stain)
186	186 L31V 9 24 CM1b	GY70/CE 339. ((0)16)T. 250°F	Oxidized, cratered
187	187 L3IV-9-25-CM5a	T 50/F263 ((0)16)T. 350 F	Eroded
188	L3IV 9 26-CM9a	T 50(PAN)/934 ((0)16)T. 350 F	Eroded
189	189 231V 9 27 CM 13b	T 50(PAN)/X904B 10 ((0)16)T 350 F	Eroded
190	190 L31V 9-28 CM17a	T 50 (PAN)/E788 (10)16)T 350 F	Eroded contaminated (particle) cratered
161	L3IV 9 29 CM34c	AMF 176/34 (abric (+45)4S, JSO F	Eroded
192	L3IV 9 30 CM43a	T 50.F263 ((0)4)T. 300 F	Eroded, cratered
193	1 31V-9 31 CM293	Celion 6000/E788 ((0)16)T 350 F	Eroded, cratered
191		HMF176/34 (abric ((0)16)T, 350°F	Eroded
195	195 L31V-9-33-CM41b	HMF 176/34 labric ((0)2(90)2)7 350 F	Eroded, cratered
196	L3IV-9 34 CM37a	KEVLARiepoxy K49 labric/X9048 (I0)16)T 350 F	Eroded
197	197 L 3IV 9-35-CM39	E glass fabric/CE:339 ((0)16)T, 250 F	Eroded
4(L3IV 9-36-TC9	Coated molybdenum foil/1 4µ SiO2	Contaminated (stain), cratered
	1991 31V.9 37-TC9	Coated molyhdenum foil/1.4u SiO2	Contaminated (particle), cratered
200	200 1 31V 9 38 TC10	Coated molybdenum foilr P238 filter (AI2O3)	Corroded
201	1 31V-9 39-TC10	Coated molybdenum foil/ P238 (ifter (AI2O3)	Corroded, cratered
cuc	131V 9 40-TC11	Coaled mohodenum foil/ SisN4	Hazed, cralered
203	1 31V 9.41-TC11	Coated molybderum foil/ Si3N4	Microfractured, cratered
706	204 S 21V 9.42 TC12	Polyurethans white pain! Chemqlaze A276/II	Eroded, discolored
205	205 1 3;V-9-43-TC12	Polywrethane white paint Chemqtaze A276/II	Eroded, discolored, cratered
206	206 L3IV 9 44 TC13	Polywethane black painl. Chemglaze 2306	Bleached
202	1 31V-9-45-7C13	Polymentane black paint: Chemplaze 2306	Bleached, cratered
296	296 L3IV 9-46-TC1	Telion FEP polymer coaling Spraylon 7075	Eroded, cralered
209	209 L3IV 9 47-TC1	Tenon FEP polymer coaling Sprayfon 7075	
210	210 L3IV-9-48 TC2	Siscone paint islack vacuum distilled RTV 602	Embrittled, contaminated (stain), cratered
211	211 L3W-9-49 TC2	Siticone paint black vacuum distifled RTV 602	Embrittled, contaminated (stain), cratered
212	L31V-9-50-TC3	White sticone high lemperature paint Sperex AP 101	Discolored (+). cratered
22.	2131 31V 9-51 TC3	paint	Discolored (+)
430	214 11V-9-52-TC6		Discolored, cracked, contaminated (particle)
215	215 L3IV-9-53 TC6		Discolored, cracked, contaminated (particle)
216	216 L3IV 9-54-TC7		Bleached, cratered
217	7 L3IV 9-55 TC7	Ceramic coating black borated silica coating	Cratered
2*8	218 L3IV-9-56-TC8	Ceramic coating black HS 4 on LI-900	Darkened, cratered
215	219 L3IV-9 57-TC8		Darkened, contaminated (particle)
22(220 L3IV 9 58 TC4		Bleached, cralered

(stain)

•	Sample 10	Description	Post-Flight Condition
122	L3IV-9-59-TC4	Black sixone high lemperature paint. Sperex SP 102	Bleached
222	222 L3IV 9.60 TCS	Tellon FEP polymer coaling Spraylon 7075	Eroded, discolored (+). flaked, cratered
223	223 L3IV 9 61 TCS	Tellon FEP polymer coaing Spraylon 7075	Eroded, discolored (+). Ilaked. cratered
224	224 L3IV 8 62 183 3	The life solar cell. CuinSe27CdS	Missing. cratered
225	225 L 31V 8 63 3	Then solar cell standard Si	Missing, cratered
226	226 L 3IV 8 54 B	Composite to composite (1 300.934) achiesive join/tHysol EA 9628 epoxy	Eroded, cralered
227	227 L3tV 8 65 1G	Composite to composite (1 300/934) adhesive joint/Hysol EA 9628 epoxy	Eroded, cratered
228	228 L 31V 8 66 12	Composite to composite (T 300/934) achesive joint/Hysol EA 9628 epoxy	Eroded, cratered
523	229 L 31V & 67 24	Graphile:polysidione (T 300/ P 1700 polysulione resin (0 / 90 l)	Eroded, cratered
230	230 L3IV & 68 12	Graphite/epoxy (conditioned) (1 300 unidirectional tape/Fiberite EA 934 epoxy resin [01])	Eroded, cralered
231	231 L 31V 15 69 Z1	Rhodium coaled glassy carbon substrate	Cratered
212	232 L3W 17 70 L	Themolomnescent dosmeler. Lif	Discolored microfractured cratered
233	233 L31V 15 71 D	HA.43 polyaryfacetylene: polyphenylquinoxyline blendilow temp PAN composite	Eroded (). cratered
234	234 L 3IV 16 72 A	HA 43 polyarylacetylene (PAA)/T300 carbon tabric composite	Oxidized
235	235 L 31V 16 73 B	Aerospace polyarylacelylene (PAA;7300 carbon labric composite	Eroded (·)
236	236 L317 16 74 C	HA 43 potyacyfacetyfene (PAA)ipotyphenykounoxylme (PPO) blend/7300 carbon labric composite	Eroded
236 5 L3 V	(3 V	Composite panel graphine/934 [O2, ±45, O2, +45, 90, 0]s with 3 coalings A276, 2306, S13GLO	Eroded (+) cratered
162 4	237 16111 9 1 7014 4	LMSC modified Cotronics 931 coating on Ta substrate	Eroded (+)
	238 L6III 9 2 TC15 21	JB is black coaling on Ta substrate	Crazed (+), flaked () cratered
612	239 LGIII 9 3 TC 16 4	Vestas coaling on Al substrate	Discolored (+). crazed (+) flaked
240	240 LGIII 9 4 TC17 1	GE SHC 1010 coating on Al substrate	Discolored
241	241 [6111 10 5 GLZ 1	Mirror graphite/glass Celion 6000/borosilicate glass	Crazed
242	L6111 10 6 ALB 7	Hinor, GV70:201:2024 clad (6 ply)	Unchanged
243	243 L6III 9 7 TC18 1	Tedia: (400BS330W11) bonded to At with Isotack Y9469	Eroded, discolored, cratered
264	244 L6III 9 B TC19 1	Black oxide coating on 304 stamless steel substrate	Bleached
245	245 L6111 10 9 MG7 3	Sirp. VS0054/EZ33A/AZ318 clad (0 ± 60 ½ (6 ply)	Dulled
246	246 L6III 10 10-AL7 2	Sup. GY702012024 clad (0 1 60°fs (6 ply)	Dulled
247	EGIII 10 11 MG7 1	Strip, VS0054/EZ33A/AZ318 ctad. [0 ± 60']s (6 ply). epsl meas . SG 20	Unchanged
248	248 LGHI 10 12.AL7.1	Surp. GY70/201/2024 (6 ply) clad. SG19 (0 + 60")s. eps! meas	Hazed (-). cratered
249 01	249 O1 [LGIII 10 13 1	Wire, P100/AZ61A (Ti + B)	Contaminated (stain)
249 02	249 02 Lein 10 13 2	Wine, P100/AZ61A (Ti + B)	Contaminated (stain)
249 03	249 03 1600 16.13 3	Wire, PtOUAZ61A (Ti + B)	Contaminated (stain)
10 612	249 04 16111 10 13 4	Wae, PtobaZ61A (Ti + B)	Confaminated (stain)
250 01	250 01 LEIII-10 13 S	Wire, PSS[TiO2]/6051AJ (Ti + B)	Contaminated (stain) (-)
250 052	250 02 L6H tu t3 6	Wile, P55(TiO2)/8661At (Fi + B)	Contaminated (stain)
251 01	251 OT LEIII 10-13 7	Vier, GY70[6Ty201	Contaminated (stain)
251 02	251 02 EGHI. 10-13-8	Wire, GV70(6T)/201	Contaminated (stain)
252 01	L6HI 10 13 9	Wire, P555061A1 (Ti ; B)	Contaminated (stain)
252 02	252 02 1 6411 10 13 10	Wire PSS/6061A1 (Ti + B)	Contaminated (stain)
253	253 :, 6111 10 13 11	Унгр. Т390:6051 AI	Contaminated (stain, particle)

W. 13005061M Wire P1005061M (Ti - B) Wire P5510M5061M Wire S100MM221G Wire P5510M5061M Wire S100MM221G Wire S100MM221G Wire S100MM221G Wire S100MM221G Wire S100M9231G	OBs Sample 10	Ostoription	Post-Flight Condition
255 01 (2011 10 14.13 Were Proteosofold (Ti - B) 256 02 (2011 10 14.15 Were Proteosofold (Ti - B) 257 02 (2011 10 14.15 Were Proteosofold (Ti - B) 258 02 (2011 10 14.15 Were Proteosofold (Ti - B) 258 02 (2011 10 14.15 Were Proteosofold (Ti - B) 258 02 (2011 10 14.15 Were Proteosofold (Ti - B) 259 (2011 10 14.15 Were Proteosofold (Ti - B) 250 (2011 10 14.15 Were Proteosofold (Ti - B) 250 (2011 10 14.15 Were Proteosofold (Ti - B) 250 (2011 10 14.15 Were Proteosofold (Ti - B) 251 (2011 10 14.15 Were Proteosofold (Ti - B) 252 (2011 10 14.15 Were Proteosofold (Ti - B) 253 (2011 10 14.15 Were Proteosofold (Ti - B) 254 (2011 10 14.15 Were Proteosofold (Ti - B) 255	2541 6111.10.14.12	ţ	Conlaminated (stain)
255 0 (1611-10-14-14 Wine Priodo661AI (Ti - B) 255 0 (1611-10-14-14-16 Wine Priodo661AI (Ti - B) 255 0 (1611-10-14-14-16 Wine Priodo661AI (Ti - B) 255 0 (1611-10-14-14-16 Wine Priodo661AI 255 0 (1611-10-14-14-16 Wine Priodo661AI 256 0 (1611-10-14-14-16 Wine Priodo661AI 257 0 (1611-10-14-17-14-14-16 Wine Priodo61AI 258 0 (1611-10-14-17-14-14-14-14-14-14-14-14-14-14-14-14-14-	255 01 618 10 1613	P100:5061A3 (Ti +	Contaminated (stain)
255 01 (2111 10 14 17) Whre Processor II (1 i B) 255 01 (2111 10 14 17) Whre Psycroscopial II i B) 255 01 (2111 10 14 17) Whre Psycroscopial II i B) 256 01 (2111 10 14 17) Whre Psycroscopial II i B) 257 01 (2111 10 14 12) Whre Psycroscopial II i B) 258 01 (2111 10 14 12) Whre Psycroscopial II i B) 259 (2111 10 14 12) Whre Psycroscopial II i B) 259 (2111 10 14 12) Whre Psycroscopial II i B) 259 (2111 10 14 12) Whre Psycroscopial II i B) 259 (2111 10 14 12) Whre Psycroscopial II i B) 250 (2111 10 14 12) Whre Psycroscopial II i B) 250 (2111 10 14 12) Shrey VSSQ25001 (2006) M CAdd (0) (1 ph) 261 (2111 10 14 12) Shrey VSSQ25001 (2006) M CAdd (0) (1 ph) 262 (2111 10 14 12) Shrey VSSQ25001 (2006) M CAdd (0) (1 ph) 262 (2111 10 14 12) Shrey VSSQ25001 (2006) M CAdd (0) (1 ph) 263 (2111 10 14 12) Shrey VSSQ25001 (2006) M CAdd (0) (1 ph) 264 (211 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 265 (211 10 12 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 267 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 268 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 269 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 260 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 261 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 262 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 272 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (1 ph) 273 (2111 10 14 12) Shrey VSSQ2500 (2006) M CADD (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	255 021.6111.10 14.14	P100.5051A1 (Ti .	Contaminated (stain)
255 OL [CIII 10 14 15] WEE PSETON/GENIAN 256 OL [CIII 10 14 19] WEE PSETON/GENIAN 257 OL [CIII 10 14 20] WEE PSETON/GENIAN 258 OL [CIII 10 14 20] WEE PSETON/GENIAN 259 OL [CIII 10 14 20] WEE PSETON/GENIAN 259 OL [CIII 10 14 20] WEE PSETON/GENIAN 259 OL [CIII 10 14 20] WEE PSETON/GENIAN 250 OL [CIII 10 14 20] WEE PSETON/GENIAN 250 OL [CIII 10 14 20] 250 OL [CIII 10 14 20] 251 OL [CIII 10 14 20] 252 OL [CIII 10 14 20] 253 OL [CIII 10 14 20] 254 OL [CIII 10 14 20] 255 OL [CIII 10 24 AL 5] 250 OL [CIII 10 24 AL	255 03 L6III - 10 - 14 - 15	Processing (Ti	Contaminated (stain)
256 01 [611 10 14 17] Wire PSS(100K 6061AI) 256 02 [611 10 14 20] Wire PSS(100K 6061AI) 256 02 [611 10 14 20] Wire PSS(100K 6061AI) 256 02 [611 10 14 20] Wire PSS(100K 6061AI) 256 02 [611 10 14 20] Wire PSS(100K 6061AI) 257 01 [611 10 14 20] Wire PSS(100K 6061AI) 258 02 [611 10 14 20] Wire PSS(100K 6061AI) 259 10 [611 10 14 20] Wire PSS(100K 6061AI) 250 10 [611 10 14 20] Wire PSS(100K 6061AI) 251 [611 10 14 20] Wire PSS(100K 6061AI) 252 [611 10 14 14 10 10 14 14 10 14 14 10 14 14 10 14 14 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14	255 04 LGHI 10 14 16	P100:5061AI (Ti .	Contaminated (stain)
256.02 citi 10 14 19 Wire PSSTONGROOM 256.01 citi 10 14 20 Wire PSSTONGROOM 257.01 citi 10 14 20 Wire PSSTONGROOM 258.01 citi 10 14 22 Wire PSTONGROOM 259.01 citi 10 14 22 Sup. OFTOZONGROOM 259.01 citi 10 15 ALI 1 259.01 citi 10 15 ALI 2 259.01 citi 10 17 ALI 5 Sinp. OFTOZONGROOM 250.01 citi 10 10 ALI 4 250.01 citi 10 22 ALI 5 250.01 citi 10 23 PSS 2 250.01 citi 10 23 PSS 3 250.01	16111 10 14		Contaminated (stain)
256 03 [6111 10 14 19] Wire PSSTOWIGGGNAI 257 01 [6111 10 14 22] Wire PSSTOWIGGGNAI 258 01 [6111 10 14 22] Wire PSSTOWIGGGNAI 259 [6111 10 15 A4.12] Wire PSSTOWIGGGNAI 259 [6111 10 15 A4.12] Sinp GYTOWIGGNAI Add (1) phy, SG17. CTS4. epsl meas. 250 [6111 10 15 A4.12] Sinp GYTOWIGGNAI Add (1) phy, SG17. CTS4. epsl meas. 250 [6111 10 15 A4.12] Sinp GYTOWIGGNAI Add (1) phy, SG17. CTS4. epsl meas. 250 [6111 10 15 A4.12] Sinp GYTOWIGGNAI Add (1) 1 phy) 252 [6111 10 20 A4.1] Sinp GYTOWIGGNAI Add (1) 1 phy) 252 [6111 10 20 A4.1] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 22 A4.5] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 22 A4.5] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 22 A4.5] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 22 A4.5] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 22 A4.5] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 24 Ep.1] Sinp GYTOWIGGNAI Add (10) 1 phy) 255 [6111 10 24 Ep.1] Sinp GYTOWIGGNAI Add (10) 1 phy) 257 [6111 10 24 Ep.1] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 22 PSS-1] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 24 Ep.2] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 24 Ep.2] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 24 Ep.2] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 24 Ep.2] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC Coaling 277 [6111 10 24 Ep.2] Sinp MY ZZ (Graphia Glass tabric) PT TOOTIC COAling 277 [6111 10 24 Ep.2] Sinp TOOTIC CO	255 02 Lette 10 14 18		Contaminated (stain)
256 cd [6111 10 14 20 Wire P95(104)606/1AI 257 01 [6111 10 14 20 Wire P95(104)606/1AI 259 10 [6111 10 14 20 Wire P000A2318 [17 8] 254 [1611 10 14 22 Wire P000A2318 [17 8] 255 [1611 10 14 22 Sup GY702012024 dad (1 ph), (0) epsl meas. SG10 259 [1611 10 14 12] Sup GY702012024 dad (1 ph), (0) epsl meas. SG10 250 [1611 10 14 14 15] Sup GY702012024 dad (10) [1 ph) 256 [1611 10 14 14 15] Sup GY702012024 dad (10) [1 ph) 256 [1611 10 12 At 3 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 256 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 At 5 Sup GY702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy702012024 dad (10) [1 ph) 257 [1611 10 22 PS3-1 Sup Gy	256 03 LEIII 10 14 19		Contaminated (stain)
257 01 [6111 10 14 2 2	256 64 L6III 10 14 20		Contaminated (stain)
2-59 [citt 1 to 14 22	257 01 [6111 10 14 21		Contaminated (stain)
259 [6111 10 15 AL13 2 Sup GY7022012024 clad (1 phy), (0) epsi meas. SG18 259 [6111 10 15 AL13 1 Sup WSB226661 156061 M clad (10) 1 phy) SG17, CTS4, epsi meas. 250 [6111 10 12 AL13 1 Sup WSB226661 156061 M clad (10) 1 phy) 251 [6111 10 12 AL13 1 Sup WSB22661 156061 M clad (10) 1 phy) 252 [6111 10 12 AL13 2 Sup GY7020172024 clad (10) [1 phy) 253 [6111 10 20 A.4 1 Sup GY7020172024 clad (10) [1 phy) 254 [6111 10 22 AL13 2 Sup GY7020172024 clad (10) [1 phy) 255 [6111 10 22 AL13 2 Sup GY7020172024 clad (10) [1 phy) 256 [6111 10 22 AL13 2 Sup GY7020172024 clad (10) [1 phy) 257 [6111 10 22 AL13 2 Sup GY7020172024 clad (10) [1 phy) 258 [6111 10 22 AL13 2 Sup GY7020172024 clad (10) [1 phy) 259 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 250 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 251 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 252 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 253 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 254 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 255 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 256 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 257 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 258 [611 10 22 AL3 2 Sup GY7020172024 clad (10) [1 phy) 259 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 250 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 251 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 252 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 253 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 254 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 255 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 256 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 257 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 258 [611 10 23 PS2 2 Sup GY7020172024 clad (10) [1 phy) 259 [611 10 23 PS2 2 Sup GY7020172020172024 clad (10) [1 phy) 250 [611 10 23 PS2 2 Sup GY7020172020172024 clad (10) [1 phy) 250 [611 10 23 PS2 2 Sup GY7020172020172020172020172020172020172020172020172020172020172020172020172020172020172	257 02 6111 10 14 22		Contaminated (stain)
259 [6111 10 17 AL15 1 Ship, VSBA22661 Toe6661 At clad (10) 11 phy) SG17, CT34, epsl meass 260 [6111 10 17 AL15 1 Ship, VSBA22661-Toe6661 At clad (10) 1 phy) 262 [6111 10 18 AL13 2 Ship, GY922012024 clad, (10) 1 phy) 263 [6111 10 20 A.4 1 Ship, GY922012024 clad, (10) 1 phy) 264 [6111 10 21 AL2 2 Ship, GY702012024 clad, (10) 1 phy) 265 [6111 10 21 AL2 2 Ship, GY702012024 clad, (10) 1 phy) 266 [6111 10 22 AL5 2 Ship, GY702012024 clad, (10) 1 phy) 266 [6111 10 22 AL5 2 Ship, GY702012024 clad, (10) 1 phy) 267 [6111 10 22 AL5 2 Ship, GY702012024 clad, (10) 1 phy) 268 [6111 10 22 AL5 2 Ship, GY702012024 clad, (10) 1 phy) 270 [6111 10 22 PS5-1 Ship, GY702012024 clad, (10) 1 phy) 271 [6111 10 22 PS5-2 Ship, GY702012024 clad, (10) 1 phy) 272 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 273 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 274 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 275 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 276 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 277 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 278 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 279 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 270 [6111 10 22 PS5-3 Ship, WY722 [GraphlerGlass labric]PY700TIC2 coaling 270 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 270 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 270 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 271 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 272 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 273 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 274 [6111 10 22 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 275 [6111 10 23 PS5-3 Ship, W722 [GraphlerGlass labric]PY700TIC2 coaling 276 [6111 10 23 PS5-3 Ship, W722 [GraphlerGlass labric]PY	258 LGIII 10 15 AL3 2		Hazed, contaminated (stain)
260 [6iii 10 17 AL15 1 Strp. VSB326661-T66066 A Cad. (90'). epsl meas. SG16 261 [6iii 10 18 AL3 3 Strp. CY70201/2024 clad. (9) [1 pty] 262 [6iii 10 10 4A.3 4 Strp. CY70201/2024 clad. (9) [1 pty] 263 [6iii 10 20 A-4 1 Strp. CY70201/2024 clad. (90') 264 [6iii 10 22 AL4 2 Strp. CY70201/2024 clad. (90') 265 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 265 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 265 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 265 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 265 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 267 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 268 [6iii 10 22 AL5 2 Strp. CY70201/2024 clad. (90') 270 [6iii 10 22 AL5 2 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 271 [6iii 10 22 AS5-1 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 272 [6iii 10 23 PS5-2 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 273 [6iii 10 23 PS5-2 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 274 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 275 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 276 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 277 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 278 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 279 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 270 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 270 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f)C2 coaling 270 [6iii 10 23 PS5-3 Strp. W-722](Graphite/Glass labric/p717007f	259 LGIII 19 16 ALI4 10	Ship, VSB32/6061 TG/6061 At clad (0) (1 ply), SG17, CTS4, epsl	Hazed, contaminated (stain)
261 LGHI 10 18 AL1 3 SIND. GV70201/2024 clad. (9) (1 pty) 262 LGHI 10 19 AL2 4 SIND. GV70201/2024 clad. (9) (1 pty) 263 LGHI 10 21 AL1 4 SIND. GV70201/2024 clad. (90) 264 LGHI 10 21 AL1 4 SIND. GV70201/2024 clad. (90) 265 LGHI 10 22 AL5 9 SIND. GV70201/2024 clad. (9) (1 pty) 266 LGHI 10 22 AL5 9 SIND. GV70201/2024 clad. (9) (1 pty) 266 LGHI 10 22 AL5 9 SIND. GV70201/2024 clad. (9) (1 pty) 267 LGHI 10 25 AL5 2 SIND. GV70201/2024 clad. (9) (1 pty) 270 LGHI 10 25 AL5 2 SIND. GV70201/2024 clad. (9) (1 pty) 271 LGHI 10 25 PSS-1 Revoled lap. W/722(Graphite/Glass labric)P1700/TiO2 coaling 272 LGHI 10 29-50-0 Sinp. W722 (Graphite/Glass labric)P1700/TiO2 coaling 273 LGHI 10 29-50-0 Sinp. W722 (Graphite/Glass labric)P1700/TiO2 coaling 274 LGHI 10 21-52-53 Sinp. W722 (Graphite/Glass labric)P1700/TiO2 coaling 275 LGHI 10 21-52-53 Sinp. W722 (Graphite/Glass labric)P1700/TiO2 coaling 277 LGHI 10 21-52-53 Sinp. W722 (Graphite/Glass labric)P1700/TiO2 coaling 278 LGHI 10 31-23 Sinp. P100AZ319 (T · B) 279 LGHI 10 31-23 Wine. P100 Apper934. (0) 270 LGHI 10 31-23 Wine. P100 Apper934. (0) 271 LGHI 10 31-23 Wine. P10 (HX/AZ91C 281 01 LGHI 10 31-23 Wine. P10 (HX/AZ91C 282 01 LGHI 10 31-23 Wine. P10 (HX/AZ91C 283 02 LGHI 10 32-23 Wine. P10 (HX/AZ91C 284 04 LGHI 10 31-23 Wine. P10 (HX/AZ91C 285 04 LGHI 10 31-23 Wine. P10 (HX/AZ91C 285 04 LGHI 10 31-23 Wine. P10 (HX/AZ91C 285 04 LGHI 10 38-20 Wine. SiCr6061 AI 282 04 LGHI 10 38-30 Wine. SiCr6061 AI	260 L611 10 17 AL15 1	Strp. VSB32/6061-T6/6061 Al clad.	Distorted, hazed, contaminated (stain)
262 LGHI 10 19 AL2 4 Simp GY70201/2024 clad. (9) [1 ply) 263 LGHI 10 20 A-4 1 Simp GY70201/2024 clad. (90) 264 LGHI 10 22 AL4 5 Simp GY70201/2024 clad. (90) 265 LGHI 10 22 AL5 9 Simp GY70201/2024 clad. (90) 265 LGHI 10 22 AL5 9 Simp GY70201/2024 clad. (9), (1 ply) 266 LGHI 10 22 AL5 9 Simp GY70201/2024 clad. (9), (1 ply) 267 LGHI 10 22 AL5 9 Simp GY70201/2024 clad. (9), (1 ply) 268 LGHI 10 22 AL5 9 Simp GY70201/2024 clad. (9), (1 ply) 270 LGHI 10 22 PS5-2 Rivoted lap. W722[Graphile/Glass labric/P1700/T/C2 coaling 271 LGHI 10 22 PS5-2 Simp GY70201/2024 clad. (0), (1 ply) 272 LGHI 10 22 PS5-3 Simp W722 [Graphile/Glass labric/P1700/T/C2 coaling 273 LGHI 10 22 PS3-1 Simp W722 [Graphile/Glass labric/P1700/T/C2 coaling 274 LGHI 10 32 PS3-1 Simp W722 [Graphile/Glass labric/P1700/T/C2 coaling 275 LGHI 10 32 PS3-3 Simp W722 [Graphile/Glass labric/P1700/T/C2 coaling 277 LGHI 10 32 PS3-3 Simp W722 [Graphile/Glass labric/P1700/T/C2 coaling 277 LGHI 10 33 PS3-4 Simp Wine, PS6 (100)/W722 [Graphile/Glass labric/P1700/T/C2 coaling 277 LGHI 10 33 PS3-4 Simp Wine, PS6 (100)/W229 C 281 02 LGHI 10 37 PS3 Wine, PS6 (100)/W229 C 282 01 LGHI 10 37 PS3 Wine, PS6 (100)/W229 C 283 02 LGHI 10 33 PS3 Wine, PS6 (100)/W229 C 284 04 LGHI 10 37 PS3 Wine, PS6 (100)/W229 C 285 04 LGHI 10 37 PS3 Wine, PS6 (100)/W229 C 285 04 LGHI 10 38 PS9 Wine, SiCr6061 AI 282 04 LGHI 10 38 PS9 Wine, SiCr6061 AI	261 LGIII 10 18 AL3 3	GV70:201/2024 clad. (0) (1	Hazed, contaminated (stain)
26.1 LGHI 10 21 AL4.2 Strip. GY7020172024 clad. (901) 26.6 LGHI 10 21 AL4.2 Strip. GY7020172024 clad. (907) 26.6 LGHI 10 22 AL5 1 Strip. GY7020172024 clad. (907) 26.6 LGHI 10 22 AL5 1 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 22 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 22 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 25 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 25 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 25 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 25 AL5 2 Strip. GY7020172024 clad. (9). (1 ply) 26.6 LGHI 10 27 PS5-2 Rwoled lap. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.1 LGHI 10 27 PS5-3 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.6 LGHI 10 31 PS2-4 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.7 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.7 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.7 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.7 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.7 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Glass labric)PP1700/TiO2 coaling 27.8 LGHI 10 32 PS3-1 Strip. W.722 (Graphile/Gla	262 LGHI 10 19 AL3 4	GY70/201/2024 clad, (0), (1	Hazed, contaminated (stain), cratered
264 [6iii 10 22 AL 5 Sinp. GY702012024 clad. (907) 265 [6iii 10 22 AL 5 Sinp. GY702012024 clad. (9). (1 phy) 266 [6iii 10 22 AL 5 Sinp. GY702012024 clad. (9). (1 phy) 267 [6iii 10 22 AL 5 Sinp. GY702012024 clad. (0). (1 phy) 269 [6iii 10 22 AL 5 Sinp. GY702012024 clad. (0). (1 phy) 269 [6iii 10 22 PS 5 Sinp. GY702012024 clad. (0). (1 phy) 269 [6iii 10 22 PS 5 Sinp. GY702012024 clad. (0). (1 phy) 269 [6iii 10 22 PS 5 Sinp. GY702012024 clad. (0). (1 phy) 270 [6iii 10 22 PS 5 Sinp. GY702012024 clad. (0). (1 phy) 271 [6iii 10 22 PS 5 Sinp. Gy702012024 clad. (0). (1 phy) 272 [6iii 10 22 PS 5 Sinp. WY22 (Graphite/Glass labric)P77007102 coaling 273 [6iii 10 22 PS 5 Sinp. WY22 (Graphite/Glass labric)P77007102 coaling 274 [6iii 10 23 PS 5 Sinp. WY22 (Graphite/Glass labric)P77007102 coaling 275 [6iii 10 23 PS 5 Sinp. W722 (Graphite/Glass labric)P77007102 coaling 277 [6iii 10 23 PS 5 Sinp. W722 (Graphite/Glass labric)P77007102 coaling 277 [6iii 10 23 PS 5 Sinp. W722 (Graphite/Glass labric)P77007102 coaling 277 [6iii 10 37 2 Wine. P100AZ91CAZ61A. (0') 278 [6iii 10 37 2 Wine. P100AZ91CAZ91C 281 02 [6iii 10 37 2 Sinp. Wine. SiCh6061 Al 282 03 [6iii 10 38 2 Wine. SiCh6061 Al 282 04 [6iii 10 38 2 Wine. SiCh6061 Al 282 04 [6iii 10 38 2 Wine. SiCh6061 Al	263 Lem :0 20.A. 4.1		Hazed, contaminated (stain)
266 [6iii 10 22-AL5 9 Surp. GY702012024 clad. (9). (1 ply) 266 [6iii 10 23-AL5 1 Sirp. GY702012024 clad. (9). (1 ply) 267 [6iii 10 23-AL5 1 Sirp. GY702012024 clad. (9). (1 ply) 269 [6iii 10 25 AL5 2 Sirp. GY702012024 clad. (9). (1 ply) 269 [6iii 10 25 AS5 2 Sirp. GY702012024 clad. (9). (1 ply) 269 [6iii 10 22 PS5 2 Sirp. W722 (Graphite/Glass labric/P1700/TiO2 coaling 277 [6iii 10 22 PS5 2 Sirp. W722 (Graphite/Glass labric/P1700/TiO2 coaling 277 [6iii 10 22 PS5 2 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 22 PS5 2 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 23 PS2 4 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 23 PS3 2 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 23 PS3 4 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 33 PS2 4 Sirp. W722 (Graphite/Glass labric/P1700 275 [6iii 10 33 PS3 2 Sirp. T300 tape334 (0) 275 [6iii 10 33 PS3 2 Sirp. T300 tape334 (0) 275 [6iii 10 33 PS3 4 Sirp. P100AZ316 [Ti + B] 280 [6iii 10 37 24 Wie. P55 (10K)AZ91C 281 02 [6iii 10 37 24 Wie. P55 (10K)AZ91C 282 01 [6iii 10 37 24 Wie. P55 (10K)AZ91C 282 01 [6iii 10 37 24 Wie. SiCh6061 AI 282 01 [6iii 10 38 27 Wire. SiCh6061 AI 282 01 [6iii 10 38 29 Wire. SiCh6061 AI 282 04 [6iii 10 38 29 Wire. SiCh6061 AI	264		Hazed, contaminaled (stain)
5 Strip. GY70:201:2024 ctad. (9). (1 ply) 6 Strip. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 6 Strip. W-722 (Graphite/Glass tabric)/P1700/TiO2 coating 7 Strip. P100:A291C/A29		GY70/201/2624 clad. (0). (1	Hazed, contaminated (slain), cratered
5.2 Strip. GV70/X 30 [0/45/90/135]4 5.2 Strip. GV70/Z01/2024 clad. (0]. (1 phy) 5.1 Rivoted lap. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 5.2 Rivoted lap. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 5.3 Rivoted lap. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 6.4 Strip. W-722 (Graphite/Glass Tabric)/P1700 6.5 Strip. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.6 Strip. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.7 Strip. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.8 Strip. T300 tape/934. (0) 6.1 Strip. P100/AZ91C/AZ61A. (0') 6.1 Strip. P100/AZ91C (0') 6.2 Strip. P500/AZ91C (0') 6.3 Strip. P500/AZ91C (0') 6.4 Wire. SiC/G661 Al 6 Wire. SiC/G661 Al 6 Wire. SiC/G661 Al 6 Wire. SiC/G661 Al	266 L 6111 10 23-ALS 1	GY70/201/2024 clad. (0). (1	Hazed, contaminated (stain)
5.2 Sinp GV70:201:2024 clad. (0), (1 ply) 5.1 Rivoted lap. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 5.2 Rivoted lap W-722(Graphite/Glass tabric)/P1700/TiO2 coating 5.3 Sinp. Invar LR-35 5.4 Sinp. W-722 (Graphite/Glass fabric)/P1700 5.4 Sinp. W-722 (Graphite/Glass fabric)/P1700 5.5 Sinp. W-722 (Graphite/Glass fabric)/P1700 6.5 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 6.6 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 6.7 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 6.8 Sinp. T300 tape/934. (0) 6.1 Sinp. P100/AZ91C/AZ61A. (0') 6.1 Sinp. P100/AZ91C/AZ61A. (0') 6.2 Wire. P55 (10K)/AZ91C 6.3 Wire. SiC/G061 Al 6.4 Wire. SiC/G061 Al 6.5 Wire. SiC/G061 Al 6.6 Wire. SiC/G061 Al 6.7 Wire. SiC/G061 Al 6.7 Wire. SiC/G061 Al 6.8 Wire. SiC/G061 Al 6.8 Wire. SiC/G061 Al	267 LGH 10 24 EP1 2		Eroded, contaminated (stain)
5.1 Rivoted lap. W-722(Graphite/Glass tabric)/P1700/TiO2 coating 5.2 Aivoted lap W-722(Graphite/Glass tabric)/P1700/TiO2 coating 6.7 Simp. Invar LR-35 6.8 Simp. W-722 (Graphite/Glass Tabric)/P1700 6.4 Simp. W-722 (Graphite/Glass Tabric)/P1700 6.5 Simp. W-722 (Graphite/Glass Tabric)/P1700 6.6 Simp. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.7 Simp. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.8 Simp. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.9 Simp. W-722 (Graphite/Glass Tabric)/P1700/TiO2 coating 6.1 Simp. P100/AZ91C/AZ61A. (0') 6.1 Simp. P100/AZ91C/AZ61A. (0') 6.2 Wine. P55 (10K)/AZ91C 6.3 Wine. P55 (10K)/AZ91C 6.4 Wine. SiC/G661 AI 6.5 Wine. SiC/G661 AI 6.5 Wine. SiC/G661 AI 6.6 Wine. SiC/G661 AI	266 LGIII 10 25 ALS 2		Hazed, contaminated (stain)
5.2 Rivoted tap W.722(Graphite/Glass tabric)/P1700/TiO2 coaling 1.7 Strap. Invar LR.35 Strap. Sodal O coaling: (A. DC93-500/ B. R.2501) 2.4 Strip. W-722 (Graphite/Glass tabric)/P1700/TiO2 coaling 3.1 Strip. W-722 (Graphite/Glass tabric)/P1700/TiO2 coaling 3.2 Strip. W-722 (Graphite/Glass tabric)/P1700/TiO2 coaling 3.3 Strip. T300 tape/934. (0) 3.4 Strip. P100/AZ91C/AZ61A. (0') Wire. P100/AZ91C/AZ61A. (0') Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	269 L6HI-10 26-PS5-1		Eroded, contaminated (stain)
1.7 Sinp. Invar LR-35 Surp. Soddal O coating (A. DC93-500/ B. R-2501) 2.4 Strip. W-722 (Graphite/Glass fabric)/P1700 3.1 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.2 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.3 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.4 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.5 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.6 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.7 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.8 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.9 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.9 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.9 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.1 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.2 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.4 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.5 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.6 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.6 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.7 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.8 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.9 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.0 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.1 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.2 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.4 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.5 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.6 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.7 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.8 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.8 Sinp. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.8 Si	270 LGH 10 27 PS5-2		Eroded, contaminated (stain), cratered
Strip. Soldal O coating: (A. DC93-500) B. R-2501) 2-4 Strip. W-722 (Graphite/Glass fabric)/P1700 3-1 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3-2 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3-3 Strip. T306 tape/934. (0) 3-4 Strip. T306 tape/934. (0) 3-6 Strip. P100/AZ91C/AZ61A. (0') Wire. P100/AZ91C/AZ61A. (0') Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	271 L6III 10-28-551-7	Sing. Invar LR-35	Hazed, contaminated (stain)
2.4 Strip. W-722 (Graphite/Glass fabric)/P1700 3.1 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.2 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coating 3.3 Strip. T309 tape/934. (0) 3.4 Strip. T309 tape/934. (0) 4.1 Strip. P100/AZ91C/AZ61A. (0') Wire. P100/AZ91C/AZ61A. (0') Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	272 L6III.9.29.50.0	Sirip. Soldal O coating. (A. DC93-500/ B. R-2501)	Crazed, wrinkled, cratered
3.1 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coaling 3.2 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coaling 3.3 Strip. W-722 (Graphite/Glass fabric)/P1700/TiO2 coaling 3.4 Strip. T300 tape/934. (0) 3.4 Strip. T300 tape/934. (0) 9.L1 Strip. P100/AZ91C/AZ61A. (0') Wire. P100/AZ91C/AZ61A. (0') Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	274 LGIII-10-31-PS2-4	Strip. W-722 (Graphite/Glass fabric)/P1700	Darkened, flaked, contamineated (stain), cratered
3.2 Strip. W-722 (Graphile/Glass fabric).P1700/TiO2 coaling 3.3 Strip. T306 tape/934. (6) 3.4 Strip. T306 tape/934. (6) 3.4 Strip. P100/AZ91C/AZ61A. (0') 9.L1 Strip. P100/AZ91C/AZ61A. (0') Wire. P100/AZ91C (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	275 Letti 10 32 PS3-1		Contaminated (stain). wrinkled
3.3 Strip. T306 tape/934. (0) 3.4 Strip. T300 tape/934. (0) 9-L1 Strip. P100/AZ91C/AZ61A. (0") Wire. P100/AZ91C/AZ91C Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	276 LGIII 10.33.PS3.2	Strip. W-722 (Graphite/Glass fabric):P1700/TiO2 coaling	Contaminated (stain), wrinkled, cratered
3.4 Strp. T300 tape/934. (0) 9-L1 Strp. P100/AZ91C/AZ61A. (0') Wire. P100/AZ31B (T1 + B) Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al Wire. SiC/6061 Al	277 LGIII 10 34 EP3 3		Eroded, contaminated (stain), cratered
9-L1 Strip, P100/AZ91C/AZ61A. (0") Wire, P100/AZ31B (Ti + B) Wire, P55 (10K)/AZ91C Wire, P55 (10K)/AZ91C Wire, P55 (10K)/AZ91C Wire, SiC/6061 Al Wire, SiC/6061 Al Wire, SiC/6061 Al	278 L6111-10:35-EP3-4		Eroded, contaminated (stain)
Wire. P100/AZ318 (Ti + 8) Wire. P55 (10K)/AZ91C Wire. P55 (10K)/AZ91C Wire. SiC/6061 AI Wire. SiC/6061 AI Wire. SiC/6061 AI	279 LGIR: 10-36-MG9-L1	Strip. P100/AZ91C/AZ61A.	Distorted, contaminated (stain)
Wire, PSS (10K)/AZ91C Wire, PSS (10K)/AZ91C Wire, SiC/6061 Al Wire, SiC/6061 Al Wire, SiC/6061 Al Wire, SiC/6061 Al	280 Letti 10 37-23	Wise, P100/AZ318 (Ti + B)	Contaminated (stain)
Wire, P55 (10K)/A291C Wire, P55 (10K)/A291C Wire, SiC/6061 Al Wire, SiC/6061 Al Wire, SiC/6061 Al Wire, SiC/6061 Al	281 01 L6H1 10 37:24		Discolored
LGHI-10-37-26 Wire, P55 (10K)/AZ91C LGHI-10-38-27 Wire, SiC/6061 Al LGHI-10-38-29 Wire, SiC/6061 Al LGHI-10-38-39 Wire, SiC/6061 Al	281 02 L6III 10 37-25		Unchanged
Wire. SiC/6061 AI Wire. SiC/6061 AI Wire. SiC/6061 AI	281 03 L6HI-10-37-26		Unchanged
Wire, SiC/6061 AI Wire, SiC/6061 AI	282 01 L6HI-10-38 27		Contaminated (stain)
Wire, SiC/6061 AI	282 02 L6HI-10-38-28	SiC/6061	Distorted, contaminated (stain)
Wire. SiC-6061 Al	262 03 [L6111 10.38-29	SiC/6061	Distorted, contaminated (stain)
	282 04 L6III 10.38-30	Wire. SiCr6061 AI	Contaminated (stain)

200	Sample 10	Description	coing	Post-Flight Condition
20 000	202 0C 6111.10.28 21	Wire	SiC/6061 Al	Contaminated (stain)
262.05	262 06 5111-10-38-32		SiC/6061 AI	Contaminated (stain)
282 07	282 07 L6(II-10-38-33		SiC/6061 Al	Contaminated (stain)
282 08	282 08 L6111 10 38 34	Wire.	SiC/6061 Al	Contaminated (stain)
282 09	282 09 L6H 10-38 35	Wire	SiC/6061 AI	Contaminated (stain)
282 1	282 1 (1611) 10 38 36	Wire	SiC/6061 Al	Contaminated (stain)
282 11	282 11 L6III 10:38 37	Wire	SiC/6061 Al	Conlaminated (stain)
282 12	282 12 L6111 10 38 38	Wire	SiC:6061 Al	Unchanged
282 13	282 13 L6III 10 38 39	Wire	SiC:6061 Al	Contaminated (stain)
262 14	262 14 L6111 10-38 40	Wire	SiC:6061 AI	Unchanged
282 15	282 15 6111 10 38 41	Wire	SrC/6061 Al	Distorted
282 16	282 16 1611 10 38 42		SiC:6061 AI	Unchanged
282 17	282 17 L6111 1G 38 43	Wire	SiC/6061 AI	Unchanged
282 18	262 18116111 10 38 44	Wue.	SiC/6061 Al	Distorted (·)
283	283 LGIII 10 39 AL15 8	Strp	VSB32/6061 T6 AV6061 clad (90). epsl meas . SG15	Cratered
284	284 L6111 10 40 MG3 17	Strrp.	VS0054/EZ33A/AZ31B (0). epst meas . SG14. CTS3	Distorted
285	285 L6H 10 41 MG5 23	Strrp.	VS0054:E233A/AZ31B (0). epsl meas . SG13 clad	Distorted
982 4	L6111 10-42 At 12-1	Strip	VSB32/6061-T6 Al/6061 clad (0)	Hazed
	L6111-10-43-AL6-1		GY70:201/2024 clad (90)	Culled (-), contaminated (stain), cratered
288	L6111 10 44-AL6-5		GV70r201r2024 clad (90)	Dulled (·). cratered
269	289 L6111 9 45 S0 G	Strip.	Soldal G coaling (A. DC93-500/ B. R-2500)	Crazed, wrinkled, cratered
291	L688 10 47 MG9 L2	Strp	P100/AZ91C/AZ61A (0°)	Distorted
292	L6111 10-48-PS3 5	Strip.	Strip. W-722[Graphite/Glass labric]/P1700/TiO2 coaling	Eroded, contaminated (stain)
293	L6111 10-49-PS4-1	Strip	W-722(Graphite/Glass fabric)/P1700/ZnO coating	Contaminated (stain)
294	L6III 10 50 PS5 5	Rivole	Rwoted tap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Eroded, contaminated (stain)
295	L6III 10-51-PS6-1	Rivole	Rivoted tap W-722Graphite/Glass fabric)/P1700/ZnO coating	Eroded, contaminated (stain)
296	L6III 10-52-PS4-3	Strip.	Strip. W.722(Graphite/Glass labric)/P1700/ZnO coaling	Contaminated (stain)
297	L6111 10-53-PS4-4	Sirp	W-722(Graphite/Glass labric)/P1700/ZnO coating	Contaminated (stain)
298	298 L6III-10-54-GL1-1	Strip.	Strip, graphite/glass Celion 6000/borosificate glass	Eroded
299	L6111-10-55-EP12-1	Strrp.	P75S/934 (0/145/90/135)S2	Eroded, contaminated (stain)
300	L6III-10-56-EP12-2	Strip.	P75S/934 (O/45/90/135)S2	Eroded, contaminated (stain)
361	L6111-10-57-EP4-4	Strp.	AS/3501·6 (0)	Eroded
302	Leur 10 58-PS2-3	Strip.	W-722(Graphite/Glass labric)/P1700	Eroded, darkened
303	L6111-10-59-AL12-2	Strip.	VSB32/6061-T6/6061 Al clad. (0)	Hazed (-). contaminated (stain)
304	L 6111 10-60-AL12-3	Strip.	VSB32/6061-T6/6061 Al clad. (0)	Hazed (-). contaminated (stain)
305	Leili 9.61.SQ.A	Strip.	Sokdai A coating: (A. Electrodag 502 / B. Electrodag 501)	Unchanged
307	7 L6111-10-63-551-1	Strip.	Strip, Invar LR35, epsilon meas., SG12	Distorted, corroded
306	306 L6111-10-64-SS1 3	SIMP.	Sirip, Invar LR35, epsiton meas., SG11, CTS 2	Distorted, contaminated (stain)
309	309 L6111-10-65-PS7	Strip	Strip. 1300/polysullone/TiO2 coaling, epsilon meas, SG10	Eroded
310	310 L6III-16-66-EP3 1	Strip	Strip. T300 tape/934 (0), epsilon meas. SG9, CTS 1	Eroded
	•			

	2	Description	
311 L6III-10-67-PS2-1	Strip	W 722(Graphile/Ginss Tabric)/P1700, epsilon meas .SG8	Eroded, discolored
	Strip	T300 Fabric/P1700, epsilon meas, SG7, [0/90]	Eroded, cratered
313 L6H-10-69 MG3-5	Sirip	VS0054/E233WAZ31B clad. (0)	Distorted
314 L6III 10 70 MG9 T2	Simp	P10C/AZ91C/AZ61A (90)	Distorted, dulled
315 L6III 10 71 MG3 1	Strip	VS0054/EZ33A/AZ318 clad. (0)	Distorted, dulled
316 L6III 10 72 EP13 1	Strp	GY70/934 (0.45,90.135)S2	Eroded
317 LGIII 10 73 MG9 T6	Strip	P100/AZ91C/AZ61A (90)	Distorted, dulled
318 LGIII 10 74.AL6 9	Simp	GY70/201/2024 clad (90)	Dulled, cratered
319 LGH 10 75 MG5 6	Sim	VS0054/EZ33A/AZ31B clad. (0)	Dulled, cratered
320 LGH 10 76 EP13 2	Sirrp		Eroded
321 LGIII 10 77.EP15 1	Sirp	T300:5208/2nO coaling	Discotored, contaminated (stain)
322 LGIII 10 78 AL14 1	Strip	VSB32:6061 T6/6061 Al clad (0)	Hazed, cratered
323 L6III 10 79 AL14 14		VSB32/6061 T6/6061 At clad (0)	Dulled
324 LGHI 10 80 EP10 1		E-glass 120 Fabric/X9048. (0)	Eroded, cratered
	Rivole		Eroded, cratered
326 L6III 10 82 PS6-4	Rivote	Rivoled Lap. 722(Graphile/Glass weave) P1700/2nO coaling	Eroded
327 LGIII 10 83 EPS 1	Strip	. GV70/X904B, {0}	Eroded
328 LGIII 10 84 EP6 1	Strop	GY70;X904B. (0/90/90/0)	Eroded, cratered
329 LGIII 10 85 EP7 1	Strip	GY70/X904B. [+45/(-45)2/+45]4	Eroded, cratered
330 LGIII 10 86-EP8 1	Strip.	HMS/3501-5A. (0/90/90/0)4	Eroded, cratered
331 L6111 10-87-EP9 1	Strip	HMS/3501-5A. (0)	Eroded, cratered
332 L6III-10-88 PH 3	Strrp	Celion 6000/PMR-15 (0)	Distorted, eroded, cratered
333 LGIII 10 89 PI1 4	Strap.	Celion 6000/PMR-15(0)	Distorted, eroded, cratered
334 (6III 10 90 EP22-1	Strip	GY70/CE339 (0/45/90/135)S2	Eroded, cratered
335 Lelli 10 91 PS1 3	Strp	T300 FabricP1700. (0.90)	Eroded
336 L6III 10 92-MG6-1	Strip	VS0054/E233A/AZ31B clad. (90)	Distorted, dulled, discolored
337 LGIII 10-93-AL32-4	Strp.	SiC fibers/Ai	Unchanged
338 L6111-10 94-MG6-9	Strrp	VS0054/E233A/A231B clad. (90)	Dulled, contaminated (stain), cracked
339 L6III 10-95-AL31 1	Strip.	SiC whiskers/6061 At	Dulled
340 L6H 10 96.AL30.2	SIM	SiC whisters2124 Al	Unchanged
341 L6III 10 97-GL3-1	Strip	graphite/glass Celion 6000/borosilicate glass	Cralered
342 L6III 10-98 EP2-1	Sinp.	. GY70/X:30/Sn-In eut. (0/45/99/135)4	Cralered
343 L6III-10-99-EP2-2	Strip	GY70/X-30/Sn-In eut.(0/45/90/135)4	Dulled
344 L6III-10 160-EP4-2	Strip	AS/3501-6(0) epsilon meas SG6	Eroded, cratered
345 L6III-10-101-PII-1	Strip.	Celion 6000PMR-15, epsilon meas., SG5 (0)	Distorted eroded, cratered
346 L6III-10-102-EP1-1	Strip	GY70/X-30/Sn-In eut (0/45/90/135)4 epsilon meas. SG4	Eroded (+), cralered
347 L6III-10-103-PS11-1	Strip.	T300/polyether sullone, epsilon meas. SG3	Eroded (+). cratered
348 LGIB-10-104-P15-2	Strip	T300/V376A, epsilon meas., SG2 (0/45/90/135)S2	Eroded (+), cratered
349 L6111 10-105 PIZ-1	Simp	GraphiteLARC-160, epsilon meas., SG1	Eroded (+). cratered
350 L6III-10 106-AL33 2	Strrp.	. P108/201/2024 (+20"/-20")S	Unchanged

OB# Sample 10	Description	Post-Flight Condition
90 200 00 1110	strin Tangipi 700/TiO2 coaling	Discolored (·). cratered
		Unchanged
	•	Discolored (·)
		Oxidized
354 LOSH 10 110 EF22.7		Dulled
		Dulled
250 Coll. 10 115 #23.6	Z C	Unchanged
3581 5III 10 114 FP21 1	Strio	Eroded
3591 61 11 10 115 FP21 2	Stra	Eroded
250 SHI 10 116 AL32 B	Strio SiC libers/Al	Unchanged
361 LEII 10 117 P15 1		Eroded
362 LGH 10 118 P15 4	Sinp T300:V378A (0/45/90/135)S2	Eroded
3631 6311 10 119 PS1-9	Strip T300 Fabric/P1700 (0/90)	Eroded
364 611 10 120 EP4 5		Eroded
1 6111 10 121 PI2	_	Oxidized
16H 10 122 Pt3	Sino Celion 6000/polyimide	Discolored
367 L6H 10 123-AL8 4	Mirror, GY70/201/2024 clad(0/±60)s	Contaminated (stain)
	Ta substrated MSC modified Cotronics 931 coating	Unchanged
369[L6111-9 125-TC15 24	-	Crazed, darkened
3761 6111 9 126 TC16 5		Crazed, flaked
3711 6III 9-127-TC17 2	At substrate/GE-SHC 1010 coaling	Hazed (·). cracked
372 LGIII 9-128 TC19 2	Stainless steel substrate, black oxide coaling	Dulled
3731 6111 9 129-TC18-2	Tectar (400BS30W11) bonded to All with Isolack Y9469	Contaminated (particle)
374 LGIII 10 130 ALB 2	Mirror, GY70/201/2024 clad (0/±60°)s	Unchanged
375 Leil 10 13! MG7.7	Strp. VS0054/EZ33A/AZ31B clad. (0/±60*)s	Dulled
376 LEHI 10 132 AL7-5	GY70/201/2024 clad.	Unchanged
377 5 6111-9 133-C48-7	P75S/934, 102-15A	Unchanged
378 t 611 9 133 C48 10		Unchanged
3791 6111-9-134-047-9	P75S/F593.	Contaminated (stain)
380 L611 9-134-C47-12	P75S/F593.	Contaminated (stain)
381 (16111-10-135-1	Wire. P100/AZ61A (Ti + B)	Unchanged
382 [6111-16-135-2	Wire, P55 (Ti02)/6061 AI (Ti + B)	Unchanged
383 (6111-10-135-3	Wire, GY70 (81)/201	Unchanged
384 L6111-10-135-4	Wire, P55/6061A1 (Ti + B)	Unchanged
385 Lettl-10-135-5	Wire. T300/6061AI	Contaminated (stain)
366 LGIII-10-135-6	Wire, P100/5061 AI (Ti + B)	Unchanged
387 L6111 - 10 - 135-7	Wire. P55 (10K)/6061 AI	Unchanged
388 L6III-10 135-8	Wire, P100/AZ318 (Ti + B)	Unchanged
389 L6111-10-135-9	Wire, P55 (10K)/ A291C	Unchanged
390 L6111-10-135-10	Wire, SiCr6061 Al	Unchanged

980	Sample 10	Descr	Description	Post-Flight Condition
30.00		Sire	Sicr6661 Al	Unchanged
10.00	Cell 10 138 1			Unchanged
20 166	1 6111 10 136 13			Unchanged
20.00				Unchanged
30 165	100 LOHE 10 138 14		_	Contaminated (stain)
2	1 611 10 130 41 2 0		1,2024 clad.	Unchanged
* 6	EGIII: 10 139 ALS	1	clad	Contaminated (stain)
000	1011 10 140 AL	2	1/2024 clad.	Contaminated (stain)
100	10 141 AL4 SIM		-	Contaminated (stain)
	1 6111 10 142 A1 5 3	, G	GY70/201/2024 clad (0 ·	Contaminated (stain)
000	CON 10 143 ALS 3			Unchanged
	CIH 10 146 ALE 10		GY70/201/2024 clad	Contaminated (stain)
			GY70/X-30 (0/45/9)	Contaminated (stain)
		2	GV70/X:30	Contaminated (stain)
404	1 611 10.148.PS5.7	Roofe	d lap W 722(0	Oxidized
707	r 611 10 149-FP22 11 Stree	Strip	GY70 CS	Contaminated (stain)
404		Sign	tovar LR35	Contaminaled (stain)
		Strip	W 722(Graphite/Glass Tabric):P1700	Confaminated (stain)
6	1 611 10.152 DS2.8	S. C.	W 722/Graphite/Glass Tabric/P1700	Confaminated (stain)
4	1 6111 10 153.PS2 9	Stro	W 722/Graohile/Glass	Unchanged
0 0	16116.10.154.PS3	Sirie		Contaminated (stain)
	1 671 10-155-PS3-8	Stro	W-722(Graphite/Glass	Contaminated (stain)
	1 SHE 10. 156-FP3-7	Siro	T300 Jane/934, (0)	Contaminated (stain)
	16111 10 157 EP3 8	Stro		Confaminated (stain)
7.7	413 1611 10 158 EP3 9	Strip		Crazed, contaminated (stain)
416	416 t 611: 10: 161-AL6-2	Strio	GY70/201/2024	Unchanged
417	L6111-10-162-AL6-6	Sirio		Unchanged
19	L6[1]-10-163-AL6-10			Unchanged
619	L 6111 10-164-AL12-4			Unchanged
450	420 L6111-10-165-AL12-5		VSB32/6061-T6/6061 AI (0)	Unchanged
421	L6111-10-166-AL12-6	Simp.	VSB32/6061-T6/6061 AI (0)	Unchanged
422		Strip	P106/AZ91C/AZ61A (+10"/-10")S	Dulked
423	L6HI-10-168-MG10-2 Strip.	Strip	P100/AZ91C/AZ61A (+10°/-10")S	Unchanged
424	L6111-10-169-MG5-12	Strip.	VS/0054/E233/AA2318 clad (0°)	Unchanged
425	L6111-10-170-PS3-9	Strip.	W-722(Graphite/Glass fabric)/P1700/TiO2 coating	Unchanged
426	426 L6III-10-171-PS4-7	Strip	W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
427	L6111-10-172-PS4-9	Strip.	Strip. W-722(Graphite/Glass fabric)/P1700/ZnO coating	Unchanged
428	L6111-10-173-PS6-7	Rivot	Rivoled Lap W-722(Graphite/Glass Tabric)/P1700/ZnO coating	Unchanged
429	429 L6HI-10-174-PS4 8	Sirp	Strip. W-722(Graphite/Glass labric)/P1700/ZnO coating	Unchanged
430	430 L6III 9 175-S0-P	Strip	Strip. Solidal P coating (A. DC93-500/ B. R-2501)	Contaminated (particle)

980	Sample 10 Des	Description		Post-Flight Condition
432	432 L6111-10 177 EP12 5 Strip.	p. P75S/934.	(0/45/90/135)\$2	Contaminated (stain)
433		p. P75S/934.	(0/45/90/135)\$2	Contaminated (stain)
434	L6111-10-179-EP4-8 Sirip.	p. AS/3501-6	(0)	Discolored
435		p. AS/3501-6 (0)	(0)	Discolored
436	L6111-10-181-EP4-10 Sirp.	p. AS/3501-6 (0)	(0)	Crazed, contaminated (stain)
437	L6111 10 182 P11 7 Strip	р Сейоп 6000/РМR-15.	I/PMR-15. (0)	Crazed, confaminated (stain)
438	L6111-10 183-AL14 9 Strp.	P. VSB32/6061-T6/6061	-T6/6061 AI clad. (0)	Unchanged
439	L6111 10 184 AL14-2 Strp	p VSB32/6061-T6/6061	-T6/6061 AI clad (0)	Unchanged
440	L6111 10 185-AL14 1! Strip	p VSB32/6061-T6/6061	-T6/6061 Al clad. (0)	Unchanged
	L6111 10-186-AL15-2 Sirp.	p. VSB32/6061-T6/6061	.T6/6061 Al clad. (90)	Unchanged
442	L6111 10 187 AL15 9 Strp.	p. VSB32/6061-T6/6061	1-T6/6061 AI clad, (90)	Unchanged
443	L6111 10 188 EP22 3		GY70/CE339 (0/45/90/135)S2	Dulled (·)
777	L6111 10 189 AL33-3 Strip.		P100/201/2024 AI (+20°/-20")S	Unchanged
445			VS0054/EZ33A/AZ31B. (0)	Unchanged
446	L6111-10 191-AL33-4 Strip		P100/201/2024 A1 (+20"7-20")S	Unchanged
447	L6111 10 192 MG4 2 Strip.		VS0054/EZ33A/AZ31B. (90)	Unchanged
448	L6111 10-193-EP13-5 SIrip.	GY70/93	4 (0/45/90/135)S2	Contaminated (stain)
449	L6111 10 194-MG5-2 Simp.		VS0054/EZ33A/AZ31B. (0)	Unchanged
450	L6111 10 195-MG3-3 Strp.		VS0054/EZ33/AZ31BA clad (0)	Unchanged
451	L6111-10 196 MGS-8 Ship.		VS0054/EZ33A/AZ31B clad (0)	Contaminated (stain)
452	L6III-10-197-EP13-6	GY70/93	4 (0/45/90/135)52	Contaminated (stain)
453	L6111-10-198-EP17-1 Ship.		T300/2 mil-3M 113 viscoelatic tape/5208	Contaminated (stain)
454	L6111-10-199-EP10-3 Strp.		E-glass 120 Fabric/X9043. (0)	Unchanged
455	L6111 10-200-EP16-2 Strip.	ip. T-300/5208	5	Contaminated (stain)
455	L6111 10 201-EP11 2 Strip	ip HMS/3501-5A	·5A +45/(-45)2/·45 4T	Containinated (stain)
457	L6111 10 202 EP8 2 SIMP.	p. HMS/3501 5A.	-5A. [0/(90)2/0]4T	Contaminated (stain)
458	LEIII-10-203-EP9-2 Sirp.		HMS/3501-5A ([0)16]T	Contaminated (stain)
459	L6111-10-204-EP5-3 Strip.	p. GY70/X904B. (0")	B. (0°)	Contaminated (stain)
460	L6III-10-235 EP6-3 Strip.	ip. GY70/X904B.	(8. (0 ² /90/90/0)	Contaminated (stain)
461	L6111-10-206-EP7-3 Strip.	ip. GY70/X904B.	tB. (+45/(-45)2/+45 4T	Contaminated (stain)
462	L6HF-10-207-PS1-5 Strip.		T300 Fabric/P-1700 (0, 90)	Contaminated (stain)
463	463 L6III-10-208-PS1-6 SIM.		T300 Fabric/P-1700 (0. 90)	Contaminated (stain)
164	L6111-10-209-GL3-2 Sup.	p. graphite gla	graphite glass: Celion 6000/borosilicate glass	Contaminated (stain)
458	L6111-10-213-MG6-8 Strip.		VS0054/EZ33A/AZ31B. (90)	Contaminated (stain)
469	L6111-10-214-MG6-2 Strip.	p. VS0054/EZ33A/AZ31B	33A/AZ31B clad, (90)	Contaminated (stain)
470	470 L6111-10-215-MG5-15 Strip.		VS0054/EZ33NAZ31B clad. (90)	Contaminated (stain)
471	471 L6111-10-216-MG3-15 Strip.		VS0054EZ33A/AZ31B. (0)	Contaminated (stain)
472	L6III-9-217-S0-8 Strip.	p. Soldal B coa	Soldal B coaling: (A. Electrodag 502 / B. Electrodag 501)	Contaminated (stain)
474	474 L6111-10-219-MG9-L3 Strip.	p. P100/AZ91C/AZ61A	C/AZ61A (0)	Contaminated (stain)
475	475 L6HI-10-220-MG9-L5 Strip.	ip. P100/AZ91C/AZ61A	C/AZ61A (0	Contaminated (stain)

DB\$	Sample 10 LGIII-10-221 EP21 15	Description Sinp. P75S/CE-339 (0/45/90/135)S4	Post-Flight Condition Contaminated (stain)
477	L6111-10-222-EP2-3 Strip.	GY70/X-30/Sn-	Contaminated (stain)
478	L6III-10-223-EP2-4	GY70/X-30 (6/45/90/1	Contaminated (stain)
619	L6111 10-224-EP22 9	p. GY70/CE-339 (0/45/90/135)S2	Contaminated (stain)
480	180 L6111 10 225 AL31-2 Strip.	p, SiC whiskers/6061	Contaminated (stain)
481	481 L6III-10 226-AL30 4 Strip	Strip. SiC whiskers/2124	Contaminated (stain)
482	L6111-10-227-AL32-1 Strp.	p. StC libers/Al	Contaminated (stain)
483	183 L6111-10 228 AL32 2 Strp.	SiC libers/Al	Contaminated (stain)
184	184 L6111-10 229-EP21-5 Sup	p P75S/CE:339 (0/45/90/135)S4	Contaminated (stain)
485	485 L6111 10 230 EP21-6 SIND	p P75S/CE.339 (0/45/90/135)S4	Contaminated (stain)
486	L6111-10 231-P15 7 Sinp	D 1300:V378A (16 ply)	Contaminated (stain)
487	187 L6111 10 232 P15 8 Shrp	p T300/V378A (16 ply)	Contaminated (stain)
488	188 L5111 10 233-P15-9 Smp.	D. 1300/v378 A (16 ply)	Contaminated (stain)
489	(89 L6III 10 234 PS1-11 Simp.	p. T300 Fabric 21730 (0. 90)	Contaminated (stain)
267	490 LEIII-10 235-P12 5 Sinp	D Graphite/LARC-16	Contaminated (stain)
491	L6111 10 236-P12 6 Sup.	p. Graphite/LARC-160	Contaminated (stain)
767	492 LGIII 10-237 Pt2 7 Sinp	p Graphite/LARC-160	Contaminated (stain)
48	(93 L6111 9 238 S0 H SIM	Strip. Sokdal H coaling. (A. DC93-500: B. R-2500)	Crazed, contaminated (particle, stain)
•	195 L61# 10 240-EP13-1; Strp.	p. GY70/934 (0/45/90/135)S2	Contaminated (stain)
667	E6111 10 244 AL14 6	Strip. VSB32/6061-T6/6061 AI clad (0)	Contaminated (stain)
200	500 L6Vi-7 1 46-11 Mine	Mirror, Ag + (AI2O3/Si)*3 multi-layer coating on polished molybdenum substrate	Microfractured, corroded, cratered
501	501 L6VI-1 2 C33 WO:	WO3 (UV treated)/polyurethane/Al substrate	Eroded, discolored
200	JO2 L6VI 1 3-833 WO3	WO3 (UV treated)+IR dye/Al substrate	Eroded
503	503 L6V1 1 4 A33 WO:	WO3 (UV Ireated)/polyurethane/Al substrate	Eroded
204	504 L6Vi 11 5 BG02 Low	Low scatter black glass	Hazed
505	LEVI-11-6 S02 Alum	Alumnized fused sifica mirror	Contaminated (particle)
206	L6VI-5-7-A1	Quartz fabric 581 (Astroquartz)/Teflon FEP/Al General Electric	Contaminated (stain)
202	507 L6VI-5-8 A2 India	Indium Tin oxide/Tellon FEP/Ag/Inconel. 5 mil. Sheldahi	Hazed
208	L6VI-11 9-N02 Low	Low scatter nickel mirror	Hazed
503	509 L6VI-11-10-C82-4 Gold	Gold coaled nickel mirror	Corroded
510	510 LEVI 5 11 A3LC Porc	Porcelain enamel on Al. NASA Marshall Space Flight Center	Contaminated (particle)
5115	L6VI-5-12-A4 India	Indium-Tin exide/Tellon FEP/Ag/Inconel, 2 mil, Shekdahl	Hazed
512	L6VI 5-13-A5B Blad	Black paint, D111, IITRI	Crazed
513	L6VI-6-14-IV Ag/T	Agitetion FEP covered cassette holding four laser communication components	Cover: buckled
514	5 14 L6VI-11-15-2 ZnSe	ZnSe infrared plate	Contaminated (spatter)
515		7µm quant fabric chemical and heat cleaned (+450°C), adhesive bond. General Electric	Contaminated (stain)
516	L6VI-5 17-A7	Telton FEP/Agrinconel, 2 mil, Sheidahi	Hazed
517		Sticon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	Unchanged
518		Siicon nitride Ioam	Unchanged
519	519 L6VI 8 20 S5 Site	Skron mitride, 2-layer sandwich (loam layer 0.45" lhick, skin layer 0.03" thick)	Unchanged

980	Semple 10	Description	Post-Flight Condition
963	confi cut 4 21 Vi	Conventional siricon cells, 5 cell string	Microfractured
026	CO. 14. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	Coming 7940 second surface aluminum mirror	Hazed
176	7.27.11.107	Commit Salar Reflector OCH SI-100	Corroded
220	10.52.5.101	At mirror (A) acc	Microfractured
523	523 L6VI 5 24-84		Corroded (+)
*76	C9.62.C.IA97		Discolored
525	L6VI-5-26 B3		Buckled
925	L6VI. 12.27.3	Thermokuminescent dosimeter. Lif	Topos C
227	L6VI 5 28 B2		Colloged
528	528 L6VI 5 29 AB	Teilon FEP/Ag/Inconel 5 md. Sheldahi	Hazed
\$29	529 LEVI 5 30 A9	In2O3/Tellon FEP/Ag/Inconel. 5 mil. General Electric	Microfractured
530	530 L6VI 5 31 A10	Kapton/Al. 1 md. Sheldahi	Eroded, crafered
531	L6VI 5 32 A11	Kapton/AI 5 mil. Sheldahi	Eroded
532	532 L6VI 5-33 A12	In203/Kaplon/Al, 5 mil, General Electric	Microfractured
533	533 L6VI 5 34 A13	Whate paint, 293, IITRI	Unchanged
534	534 L6VI 5 35 A14	White paint S13GLO HTRI	Discolored ()
535	535/L6VI 5 36 A15	White paint, VB-71, IITRI	Crystaltized
23.5	535 1 6VI-5-37-A16	White pain NS 43G. NASA Goddard Space Flight Center	Discolored ()
4	537 (L6VI-5-38-A17	White paint, EU203/RTV 602, ML101, Air Force Malerials Laboratory	Discolored ()
	518 1 5V! 5 39 A18	White paint, aloba-Al203/RTV 602, ML101. Air Force Materials Laboratory	Discolored (+). contaminated (particle)
539	1 6VI 5 40.A19	White paint, PV100 TiO2/sificone resin. ML101. Air Force Materials Laboratory	Contaminated (particle)
240	540 6VI 5 41-A20	White paint TiOZHTV 602, ML101, Air Force Materials Laboratory	Discolored (·)
175	541 LEVI-5 42-A21	White paint DC92-007 TiO2/RTV 3140. Rockwell int	Discolored, contaminated (particle)(+)
542	542 6VI-5-43-A22	White paint, DC92-007 Tr02/RTV 3140, Rockwell Int	Discolored, contaminated (particle)
5.63	54311 6VI 2 44.002	Fused 5:02	Unchanged, cratered
544	544 1.671 2.45 018	Fused SiO2	Unchanged
3.45	545 L6VI 2 46 019	Fused S/O2	Contaminated (particle)
546	546 L6VI-2-47-014	MgF2 coating, lambda (1 06)/2 thict/fused silica substrate	Crazed. cratered
547	547 L6VI 2 48 022	MgF2 coating, lambda (1.06)/2 thick/lused silica substrate	Crazed, contaminated (particle), cratered
546	548 L6VI 2-49-024	MgF2 coating, lambda (1.06)/2 thict//lused silica substrate	Crazed, contaminated (particle)
5*6	549 L6VI-2-50-N19	Poished molybdenum	Corroded (·). contaminated (particle)
550	5 L6VI 2-51-N23	Poished molybdenum	Hazed
551	L6V1-2-52-NB	Poished molybdenum	Hazed
555	552 L6VI-2-53-N3	ThF4/Ag/Cr coating tambda (1.06)/2 thick/ molybdenum substrate	Conlaminated (particle), cratered
583	553 L6VI-2-54-N6	ThF4/Ag/Cr coating lambda (1.06)/2 thick/ molybdenum substrate	Hazed
554	4 L6VI-2-55-N14	ThF4/Ag/Cr coating tambda (1 06)/2 thick/ molybdenum substrate	Hazed
55.	555 L6VI-2-56 8692	Diamond-turned copper. A surface	Oxidized, contaminated (particle)
555	556 L6VI-2-57-8683	Diamond-turned copper, B surface	Oxidized, contaminated (particle)
55.	557 L6VI 2.58.8686	Diamond-turned copper. A surface	Oxidized, contaminated (particle)
52	558 L6VI 2:59-2	Diamond fumed nickel coaled copper. A surface	Contaminated (particle)
55	559 L6VI 2 60.4	Diamond-furned nickel coated copper, A surface	Hazed, contaminated (particle)
	-		

L6VI 1 64 A41 L6VI 1 64 A41 L6VI 1 66 A52 L6VI 1 66 A52 L6VI 1 68 15 L6VI 1 69 C52 T31 1 2 D T31 1 2 D T31 1 4 B T31 9 5 CW2 T31 9 6 CW2 T31 9 6 CW2 T31 9 5 CW3 T31 9 6 CW2 T31 5 1 C1 T31 5 1 C C1	Ag-plated stainless steel hardware Ag-plated stainless steel hardware Ag-plated stainless steel hardware Ag-plated stainless steel hardware iii) iii) iii) 5 mil)	Hazed, contaminated (particle) Eroded, discolored Eroded, discolored Eroded, discolored Discolored (*) Eroded, discolored Corroded, discolored Corroded, cratered Corroded, cratered Contaminated (particle, stain), cratered Corroded, Contaminated (stain), cratered Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged Corroded, crazed Embrittled, discolored Embrittled, crazed Debonded, crazed Debonded, crazed Debonded, crazed Embrittled, crazed Debonded, crazed
594 T311 5 18-82 Optical Solar Reflector, OCLI SI-100 with conductive coating 595 T311-5-19-A1 Ocartz tabric 581 (Astroquartz)/Tellon FEP/AI. General Electric 596 T311-5-20-A2 Indium-Tin oxide/Tellon FEP/Ag/Inconel, 5 mil. Shekdahl 597 T311-5-21-A3 Porcetain enamel on AI. NASA Marshall Space Flight Center 598 T311-5-21-A5 Indium-Tin oxide/Tellon FEP/Ag/Inconel, 2 mil. Shekdahl		Discolored, corroded Discolored, microfractured Discolored Discolored

8 0	Semple 10	Description	Post-Flight Condition
009	600 T311-5 24-A6	7 µm quartz fabric chemical and heat cleaned (+ 450°C), adhesive bond/Al. General Electric	Discolored
601	T311-5-25 A7	Tefon FEP/Aginconel, 2 mil. Sheldahi	Hazed, buckled
602	602 T311-5-26-A8	Teffon FEP/Ag/inconel, 5 mil, Sheldahl	Hazed
603	T311 S 27 A9	In203:Tellon FEP/Agilnconel. 5 mil, General Electric	Hazed, crazed
604 1	T311-5-28 A10	Kapian/Ai, 1 mä. Sheldahi	Darkened, contaminated (stain)
605	T311 5 29 A11	Kapion/Ai, 5 md. Sheidahi	Contaminated (stain)
909	T311 5 30 A12	In2O3/Kapton/Al. 5 mil. General Electric	Contaminated (stain)
607	T311 5 31 A13	White paint, 293, IITBI	Discolored, crystallized
609	608 T311 5 32 A14	White paint, Staglo, little	Discolored (+)
609	609 T311 5 33 A15	White pamt VB 71 littel	Discolored (-), crystallized
6101	610 T3# 5 34 A16	White panif, NS 43G, NASA Goddard Space Flight Center	Discolored (+). crystallized
9119	T3H 5 35 A17	White paint, Eu203/RTV 602. ML101, Air Force Materials Laboratory	Discolored (+)
6121	612 1311 5 36 83	Au mirror/Ai	Darkened
613	613 T3H 5 37 B4	Al muror/glass	Discolored
614	614 1311 5 38 85	Ag murou/Al	Discolored, cratered
615	615 7311 5.39.86	Ag murou/Al	Corroded, contaminated (stain)
615	615 T311 S 40 A18	White paint, alpha Al203/RIV 602, ML101, Air Force Materials Laboratory	Discolored (+)
51	617 T311 5 41 A19	White paint PV100 Ti02/silicone resm. ML101, Air Force Malerials Laboratory	Discolored, crazed, contaminated (particle)
	618 T3H 5 42.A20	White paint TiO2/RTV 602, ML101, Air Force Materials Laboratory	Discolored (+), contaminated (particle)
1619	619 T3!! 5.43.A2!	White paint, DC92-607 TiO2/RTV 3140, Rockwell int	Discolored, wrinkled, crazed
620 1	620 T3H-5-44-A22	White paint, DC92-007. TiO2/RTV 3140, Rockwell Int	Discolored, wrinkled, contaminated (particle)
621 1	621 1311 14 45 03	Coated quarts crystal microbalance (OCM) active. 150A In203/9000A AI+AI2O3	Discolored, contaminated (stain)
622 1	622 T3H 14 46 04	Coated quartz crystal microbalance (OCM) - passive, 150A ZnS/9000A Al+Al2O3	Confaminated (particle)
623	623 T3H 12.47.4	Thermolyminescent dosimeter, Lif	Buckled, contaminated (particle)
624 1	624 T3II 11 48 BG06	Low scaller black glass	Bleached, cralered
625 1	625 138-11-49-506	Alumnzed lused silica mirror	Hazed
626 1	626 T3II-11-50-N03	Low scatter nickel minor	Contaminated (particle, stain)
627 1	627 7311.6.51 111	Ag/Tellon FEP covered casselle containing 11 sun pumped laser coatings	Cover roughened, discolored
628 1	628 T311-6-52-1A88	Ag/Tellon FEP covered casselle holding 26 laser communication coatings and optical materials	Cover: roughened, discolored
629 1	629 T3H 1 53 A7	WO3 (UV Inealed)/polyurelhane/Al substrate	Discolored
630 1	638 T3H-1 S4 B7	WO3 (UV treated)-tR dye/N substrate	Discolored
631	631 1311 1 55 C7	WO3 (UV irealed)/polyurelhane/Al substrate	Discolored
632 1	632 7311 7 56 23	Wirror, Al203 coating, tambda/2 thick @ 2.7 µm. CaF2 substrate	Unchanged
633 1	633 738 4 57.3	Sofar ceft coating	Hazed, microfractured
634 1	634 T3II-16-58-F	Composite (unknown liber/matrix)	Contaminated (stain)
635 1	635 1311.7.59.2	AI203 coating on SiO2 substrate	Microfractured, flaked
636	636 7311-7-60-4	Si coating on SiO2 substrate	Contaminated (particle)
637 7	1311.7 61 7	Thif4 coaling on SiO2 substrate	Microfractured
638	638 1311-7 62-8	PbF2 coafing on SiO2 substrate	Contaminated (particle)
1669	639 1311.7 63 12	As2Se3 coaling on SiO2 substrate	Crazed, discolored

58 0	Sample 10	Description	Post-Flight Condition
640	T311 7-64 11	ZnS coaling on SiO2 substrate	Buckled histored
179	7311 15 65 OT	Black chrome coaling on molybdenum substrate	Reached Coased
642	T3!! 15.66.P1	Rhodum for bended with DC 6-1104 to aluminum substrate	Discolored (1) grafter
643	T311-15-67 Qt	Indium for bonded with DC 6 1104 to aluminum substrate	Discolored
244	T3ff 15-68 R1	Pokshed molyddenum miros	Discolored correded
645	645 [7][15 69 51	Sputtered black modum coating on polished molybdenum substrate	Bleached contaminated (narticle)
646	13H 15 70 TE	Spotemed black endum coating on pulished molybdenum substrate	Craved Baked
647	647 T3H 15 71 Ut	Spullered black rhodum coaling on polished molybdenum substrate	Crayed Cated
648	648 T3II 18 72 Vs	White thermal conirol paint YB 71/A IITRI	Contaminated Artists
6*9	649 T3H 18 73 W	Black themal control pami, D111:Al IITRI	Communicated (Stain)
659	650 T3H 16 74 X	ZnSe crystal	
651	651 73H 18 75 V	Polyphenykumordne (PPC) film on Ai	Contaminated (particle)
859	652 1311 16 76 G	HA 43 potrasylacetylene (PAA): polybenzmidazole fiber (PBI) composite	Fortunated (particle)
653	653 T3III 9 1 CM2a	GY70/CE 339 [0/39)2/0]4T 250-F	Discolored
654	73H 9 2 CM4b	GY70/CE 339, [(0)2//90/2]T. 250 F	Discolared () contaminated (Assis)
655	T3111 9 3 CM6a	150.F263 [0/(90)2/0]4T 350 F	Discolored ()
889	656 Tani 9 4 CM8b	T50.F263 [(0)2/(90)2]T, 350'F	Ojecolored ()
		I solpanjsosio/(90)2/01/41 aso f	Discolared
659	Talli 9.6 CM145	T SOLPANIXSOAB 10[04/50]2/0]4T 350 F	Discolored
689	T31# 9 7 CM18b	C SOLPANJETBBIG(90)2/014T 350 F	Discolored ()
660	660 T3III 9 8 C3422	KEVLARIEDOTY K49 tabinex49048 (10)2/(90)2[T. 350-F	
199	T311 9 9 CM445	150x263 [0190]20]4T. 250*F	Discourage
662	662 T3III 9-10 CM303	Celion 6000/E785jg/g9jz/gjeT, 350°F	Discolored
663	Talle 9 11 CM3c	GY70/CE.339(*45/-45/-45/45)4T_ 250°F	Discolored
	1311 9 12 CM7c	750/F262 [•45// 45]20•45/4T, 350/F	Discolored
665	13H 9 13 CM11.	T.50(PANI/934)+45/1-45/21-45/4T. 350 F	Discolored ()
	1311.9 14.CM158	T.50(PANI/X9048:10[+45/[-45/2/-45/4T] 350°F	Dsicolored (.)
657	T3111 9 15 CM19c	T 50(PAN)/E788[+45/(-45)2/+45]4T, 359"F	Discolored ()
668	Tall 9 16 CM28b	KEVLARieposy K49 (abric/X904B (145)45, 350 F	Discolored (+)
	TORE 9 17 CM456	7 SOF263 [+45/(-45)2/-45]41, 300°F	Discolared (+)
1029	Thirt 9 18 CM31a	Celian #000/E7888[+45/[-45]2/-45]4T, 350-F	Discolored (1)
671	T388.9 19 AB2 1	HMF 330C/934-2026-HMF 330C/934 (9528), 250°F	Discolored
	13111 9 20 AB2 S	HMF 330C/934 2024-1flaf 330C/934 (9628), 250°F	Discolored (+)
673	T318 9 21 AB2 7	HWF 336C/934-2024 HWF 330C/934 (9628), 250°F	Discolored (+)
1 769	T3HF-9-22-A82-9	MMF 130C/934-2024-HMF 330C/934 (9628), 250°F	Discolored (+)
1 6 7 5 1	13115-9-23-CM125	T soupanigationizingstr. 350°F	Discolored contaminated (claim)
676 T	T381.9.24 CM165	T 50[Panj/x9048-10][0]2/190]2jT . 350-F	Discolored distorted
67717	67717311 9 25 CM20a	T.SOIPANIJE788[[0]2/190]2[T. 350*F	
1949	676 T311 9 25-CM28b	HMS/1501 5A[(0)2/(90)2]T. 290-F	
1629	679 TOH 9 27 CM46a	150ºF263 [[0]2/[90]2]T. 300°F	Discolated, statuted, distolled
			Caroline ('). distolled

TONIS 22 AMES TONIS 22 AMES TONIS 22 AMES TONIS 23 AMES TONIS 33 AMES TONIS 33 AMES TONIS 34 HIS TONIS 35 H	-		Post-Flight Condition
Cason copper Battle Cason	OBS Semple 10	Ooksygnen	
Code guard eviews Discord meth Code of Code guard eviews Discord meth Discord eviews and the state of the code guard eview	680 T311 9.28 CM325	Celion 6000/E785[[0]2/(90)2[T	Uiscolored, distorted
Gody Stated burnted Discon metal Cody place metal burntate Sold gister eatal tarmate Cody place metal burntate Cody place metal burntate Sold gister eatal burntate Sold gister eatal burntate Sold gister eatal burntate Cody place metal Discon metal Cody gister eatal burntate Sold gister eatal burntate Contaminated (particle) Contaminated (particl	13-714 OC 0 13-64-1-0-0		Unchanged, discolored (holder)
Parse metal mesh binnate Sold gains care all aimmairs Cod gained worm Dacon mean Cod gained worm of proceed floated Darbor mean Cod gained worm of proceed floated Special carbor lungstee bearing series Name and 2024 Action along Autorities Autorities along Autorit	1000 C C C C C C C C C C C C C C C C C C	•	Unchanged, discolored (holder)
Sold passic areal immaries Code passic areal immaries Code passic areal immaries Code passic areal immaries Code passic areal immaries Sold possic areal immaries Sold possic areal immaries Sold possic areal immaries Contaminated formice) Sold possic areal immaries Sold possic areal immaries Contaminated formice) Animanum 2024 Alica aloy Contaminated (particle) Contaminated	200 OF 6 IIIT 1 200		Unchanged, discolored (holder)
Solid place area to Decion much to Solid place and described described (holder) Gold place and much barmans Gold place to much the much barmans Special carbor lungsten beaming serve Gold place to much the much barmans Manuary 2024 ACCu alloy Animany 2024 ACCu alloy An	683 T348 9 31 A43c		Buckled (1) discolored (holder)
God gated some Decoon method of God gated before Decoon method of God gated some Decoon method of God gated before Decoon method of God gated before Decoon method gated before Decoon method gated before Decount method gated before Decount method gated gated God gated before polyment of God gated g	684 T3111 9 32 AMAC	Sold plastic netal laminate	the particular of the factor
Code guide lunted Dazcon mesh protection and the Code guide lunted lunders and the Code guide lunders and code guide and code guide lunders and guide guide guide lunders and guide guide lunders and guide guide guide lunders and guide	685 Tant 9 32 AMIC	Gold plated woven Casson thruth	Oncharged, discoursed (notes)
Pays to rest in mesh tammase Society or pays mesh tammase Animum 2024 Alctu aloy Animum animase pains am MOS devices Another animase disaring to contaminated (particle) Anits devices Another animase disaring to contaminated (particle) Anits devices Another animase disaring to contaminated (particle) Contaminated (particle) Contaminated (particle) Contaminated (particle) Contaminated (particle) Contaminated (particle) Contaminated (stain) particle) Contaminated (stain) par	686 Tatil 9 34 AM2b	Gold puted leating Dacron mests	Buckled, discolored (noter)
Speic phásic meial tammare Speical contaminated particle Constantiand particle Speical carbonistation belants reson Speical carbonistation belants reson Speical carbonistation belants reson Auminum 2024 Alcús alloy Aimmum 2024 Alcús alloy Aimmum 2024 Alcús alloy Aimmum 2024 Alcús alloy Aimmum 2024 Alcús alloy Contaminated (sain) Contaminated (particle) Contaminated (particle) Contaminated (sain) Contaminated (s	687 Taill 9 25 AM3d	Printer ment interest latterate	
Graphise polyamide Graphise polyamide Graphise polyamide Special carboniumgians bearing reson Special carboniumgians bearing reson Asumium 2024. Alicu alloy Anodaed alumnum anamining plain with MOS devices MOS	Company of the Assess	Sold place as the fall of the second	
Graptus polymide Special carboniumgsken bewinng reson Special carboniumgsken bewinng reson Special carboniumgsken bewinng reson Special carboniumgsken bewinng reson Annotated alumnium countring plate with MOS devices And devices MOS devices And felts, build gads Gads FETs build gads FETS build gads Gads FETS build gads	11 AT T 11 11 1 1000	Countries ordered to	Unchanged
Special carbonitungster bearing reson Special carbonitungster bearing reson Special carbonitungster bearing reson Alumnum 2024 Alcu alloy Annotated alumnum mounting plate with MOS devices MOS device	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Unchanged
Special Carlon tungster rowning term Abminium 2024 Aucu alloy Aliminium 2024 Aucu alloy Anadezed aluminum mounting pists with MOS devices	111 02 1111 1050	Control of the contro	Contaminated (stain)
Asimonum 6061 16 Asimon	69 (Table 3 39 fg	serve describing and the server of the serve	Contaminated (stain)
Alternation 2024 AUCtor alloy Altomorphin 2024 AUCtor alloy Audocted alternation position with MOS devices MOS dev	692 73111 3 40 17	System Carbon Control of the Control of the Carbon	Contaminated (particle)
Aluminum 2034 Alicu alloy Annodesed aluminum mounting plais with MOS devices Anolised aluminum mounting plais with GaAs FETs, bulk GaAs GAAs FETs, bulk GAS GAAs FETs, bulk GAAs	692 T311 7 41 HIA	Auminum 2024 Accu alloy	Contaminate (particle)
Anodered alumnium mounting plate with MOS devices MOS	694 T3H 3 42 HIA		(obsited) belonimeted
MOS devices MOS de	695 Tailt 19 43 C 60	Anadised alumenum mounting plate wi	Containing of Character
MJS devices MJS de	695 01 13III 19 43 C 01		Clased
MOS devects MOS de	C 695 02 T3111 19 43 C 02		Contaminated (particle)
MOS devects GAA'S FET'S book GAA'S MUSTINUTH GOOK TO PET'S DOOK GAA'S MUSTINUTH G	695 03 T3III 19 43 C 03		Crazed, contaminated (stain)
MOS devices MOS De	695 04 13111 19 43 € 04		
MOS devect MOS devects Gads FETs, buth Gads	695 05 TIH 19 43 C 05		Contaminated (particle)
MOS devices MOS Devices MOS Devices MOS Devices Anadysed aluminum meanibing plate with GaAs FETs, butk GaAs GaAs FETs, buth GaAs	695 061 13111 19 49 C 06		Contaminated (particle)
MOS devices MOS Devices Anadized aluminum mainibing plate with GaAs FETs, buth GaAs Aluminum 6061 T6 Aluminum 6061 T6 Pyrolisie carbon. Pyro Carb 431 Pyrolisie carbon. Pyro Carb 431	695 02 T3111 19 63 C.07		Contaminated (particle. stain)
Anodited sluminum mauniting plate with GaAs FETs, bulk GaAs GaAs FETs bulk GaAs GaAs FETs bulk GaAs GaAs FETs bulk GaAs GaAs FETs, bulk GaAs Aluminum 606: 16 Aluminum 606: 16 Pytolisis carbon, Pyto Caab 43: Pytolisis carbon, Pyto Caab 43:	20 14 47 61 mms 20 202		Contaminated (particle, stain)
44 D 00 Anactited atuminum mauniting posite with GaAs FETs, butt GaAs 44 D 10 GaAs FETs butt GaAs 44 D 11 GaAs FETs butt GaAs 44 D 12 GaAs FETs butt GaAs 44 D 13 GaAs FETs, butt GaAs 44 D 15 GaAs FETs, butt GaAs 44 D 16 GaAs FETs, butt GaAs 45 D 16 GaAs FETs, butt GaAs 46 D 16 GaAs FETs, butt GaAs 47 D 16 GaAs FETs, butt GaAs 48 D 16 GaAs FETS, butt GaAs	20 C C C C C C C C C C C C C C C C C C C		Contaminated (particle, stain)
GaAs FETs both GaAs GaAs FETs both GaAs GaAs FETs both GaAs GaAs FETs both GaAs GaAs FETs, both GaAs GaAs FETs, both GaAs GaAs FETs, both GaAs GaAs FETs, both GaAs Aluminum 6061 T6 Aluminum 6061 T6 Pyrolisic cambon, Pyro Carb 431 Pyrolisic cambon, Pyro Carb 431	CON CLASS CO. CO. C.		Discolored confaminated (particle)
Gade FETs both Gade Alaminum 6061 T6 Aluminum 6061 T6 Pyrolisic camon, Pyro Carb 431 Pyrolisic camon, Pyro Carb 431	50 C 77 C 20174 10 707		Contaminated (stain. particle)
GaAs FETs buth GaAs GaAs FETs, buth GaAs Aluminum 6061.76 Aluminum 6061.76 Aluminum 6061.76 Pyrolise carbon, Pyro Carb 431 Pyrolise carbon, Pyro Carb 431	646-01-13-14-14-14-14-14-14-14-14-14-14-14-14-14-		Contaminated (stain, particle)
CaAs FETs but GaAs CaAs FETs, but GaAs GaAs FETs, but GaAs GaAs FETs, but GaAs GaAs FETs, but GaAs 19C GaAs FETs, but GaAs Aluminum 6061 T6 Aluminum 6061 T6 Pyrolisic cambon, Pyro Carb 431 Pyrolisic cay Pyro Carb 431	1 C 44 64 FIFTH CO A0A		Contaminated (stain, particle)
CaAs FETs, buth GaAs GaAs FETs, buth GaAs GaAs FETs, buth GaAs GaAs FETs, buth GaAs 190: GaAs FETs, buth GaAs Aluminum 6061 T6 Aluminum 6061 T6 Pyrolisic carbon, Pyro Carb 431 Pyrolisic cay Pyro Carb 431	200 04 PT 111 10 44 D 17		Contaminated (stain, particle)
T3111 19 44 D 15 GAAFETs, buth GaAs T3111 19 44 D 15 GAAFETs, buth GaAs T3111 19 44 D 3639C GAAFETs, buth GaAs T3111 19 45 V Aluminum 6061 T6 T3111 1 45 V Aluminum 6061 T6 T3111 1 45 V Aluminum 6061 T6 T3111 1 48 VII Pyrofile Carbon, Pyro Carb 431	20 27 63 HILL 30 303		Conlaminated (stain, particle)
Gade FETs, buth Gade Gade FETs, buth Gade Gade FETs, buth Gade Gade FETs, buth Gade Aluminum 6061-T6	ALCO AND DESCRIPTION AND AND AND AND AND AND AND AND AND AN		Conlaminated (stain, particle)
GaAs FETs, buth GaAs GaAs FETs, buth GaAs GaAs FETs, buth GaAs GaAs FETs, buth GaAs Aluminum 6061 T6 Aluminum 6061 T6 Pyrolitie carbon, Pyro Carb 431 Pyrolitie carbon, Pyro Carb 431	200 02 13 13 14 00 15 15 15 15 15 15 15 15 15 15 15 15 15		Contaminated (stain, particle)
Gade FETs, but Gade Gade FETs, but Gade Auminum 6061 T6 Aluminum 6061 T6 Pyrolitie carbon, Pyro Carb 431 Pyrolitie carbon, Pyro Carb 431	4 C 47 C 1112 W 4 C 4 C 4		Contaminated (stain, particle)
Garefets, but Gars Auminum 6061.T6 Aluminum 6061.T6 Pyrolise carbon, Pyro Carb 431 Pyrolise carbon, Pyro Carb 431			Contaminaled (stain, particle)
Cub 43*	200 11 11 10 14 0 15 15 15 15 15 15 15 15 15 15 15 15 15	TO THE COMPANY OF THE COMPANY	Contaminated (stain, particle)
Aluminum 6061 T6 II Pyrolike carbon, Pyro Carb 431 II Pyrolike carbon, Pyro Carb 431	V-24 C 11121 2 45.	Abusinum 6061-T6	Contaminated (stain, particle)
Pyrolise carbon, Pyro Carb 43*	698 Tall 3 46 V	Aluminum 6061 T6	Contaminated (stain, particle)
Parenting Car Pare Carb (3)	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pyralike carbon, Pyro Carb 434	Unchanged
	700 T311 3 48 VII	Problem Car Paris Carb 433	Unchanged

D&e Semp	Sample 10	Description	Post-Flight Condition
ViET 1357	TJIV 4 15 58	7940 fused sitica. Detrin retainer, OCLI	Contaminated (particle)
742 T3IV.	T3IV.4 16 62	Cera, Dehin relaner, OCU	Microfractured, contaminated (particle)
743 T3IV.	T3IV.18 17	White thermal control paint, S13GLO/6061 At 11TRI	Discolored (+). crazed
744 T3IV 18-18	18.18	White thermal control paint, S13GLO16061 At 11TR1	Discolored (+). crazed
745 T31V 4 19	4 19 C	HESP II siron cers 5 cell string	Microfractured
246 T3IV 4 20 GA2	4 20 GA2	HESP II GaAs cotts. 5 cell string	Discolored
747 T31V 4 21 VJ2	4 21 VJ2	Verleaf pinchen sikon cells 5 cell sting	Microfractured, discolored
748 1315 4 22	4 22 0	High performance sticon cells, 5 cell string	Microfractured. discolored
749 131V 4 23 X4	4 23 X4	Conventional tecon ceits. 5 cell string	Debonded, discolored
750 T31V	750 131V 9 24 CM12	GY70-CE 319 [10]16jT 250'F	Discolored
751 T31V	751 T31V 9 25 CMSb	T50.F263 0116 T 350 F	Bleached
752 T3IV	752 T3IV 9 26 CM96	t sopaniyasa (lotigit 350 f	Discolored
753 T3IV	753 T31V 9 27 CM13a	T 50(PAN)X9048-10 (10)16JT, 350-F	Discolored
754 T31V	754 T3IV 9 28 CM176	T 50(PANI)E788 [(0)16]T, 350 F	Discolored
755 T3IV	755 131V 9 29 CM342	HMF 17674 (±45)4S 350 F	Discolored
756 T31V	756 T31V 9 10 CM41b	T 50/F263 [[0]16]]. 300 F	Discolored, contaminated (particle)
757 T31V	757 131V-9 31 CM295	Cehon 6000/£788 [(0)4]T 350 F	Discolored
VIET 857 25	758 T3IV 9 32 CM22b	MMF 176:34 labric [(0)16]T 350'F	Discolored
	759 TIV 9 33 CM419	HMF 176/34 tabie [[0]2/[90]2]T. 350 F	Discolored
760 T3FV	760 T31V 9 34 CM37b	KEVLARIEDONY K49 Labrich 9048 [10]16]T 350 F	Discolored
761 T3IV	761 Talv 9 35 CM395	E glass tabrierCE-339 [[0]16]T, 250:F	Discolored, cratered
762 T3IV 9 36-TC9	3 36-TC9	Coated molybdenum loans 4 pt 5/02	Discolored
763 T31V 9 37 TC9	9 17 TC9	Coated melybdenum total 4 p. SiO2	Cratered
764 T31V 9 38 TC10	3 38 TC10	Coaled molybdenum (oil/ P238 liller (AI2O3)	Contaminated (particle)
765 T31V 9 39 TC10	3 39 TC10	Coaled molybdenum loili P238 litter (AI2O3)	Discolored, hazed
766 T3IV 9 40 TC11	3 40 TC11	Coated malybdenum laiv Sizive	Distorted
767 Talv	767 T31V 9 41 TC11	Coaled molybdenum law Sians	Distorted
768 T3IV 9 42 TC12	7 42 TC12	Polyurethane white paint, Chemglaze A276/11	Discolored
769 T3IV	769 T3IV 9 43 TC12	Polyurethane white paint, Chemgiaze A276/11	Discolored
770 T31V	770 TAIV 9 44 TC13	Polyurethane black paint, Chemglaze 2306	Bleached
771 T31V 9 45 TC13	3 45 TC13	Polyuerhane black pami, Chemglaze 2306	Bleached
772 131V 9 46 TCS	3 46 TCS	Tellon FEP polymer coaling Sprayfon 7075	Discolored
773 T31V 9 47 TCS	9 47 TCS	Tellon FEP polymer coaling Spraylon 7075	Discolored
774 T3IV 9 48 TC2	48 TC2	Shizone paint black vacuum diskilled RTV 602	Crazed
775 T31V 9 49 TC2	9 49 TC2	Silicone paint black vacuum distilled RTV 602	Crazed, cratered
776 T3IV 9 50-TC3	9 50-TC3	White silicons high temperature paint Sperex AP-101	Discolored, wrinkled
777 T3IV-9-51 TC3	2.51 TC3	White silicone high temperature paint Sperex AP-101	Discolored, wrinkled
778 T31V 9-52 TC6	3-52 TC6	Ceramic coating white borated silica	Discolored, contaminated (particle, stain)
779 T3IV 9 53 TC6	3 53 TC6	Ceramic coating white borated silica	Discolored, contaminated (particle)
760 131V 9 54 TC7	9 54 TC7	Ceramic coaling black berated silica coating	Bleached (-)

-	9		Post-Flight Condition
-		١	
781 T3	T3IV 9.55.TC?	Ceramic coating - black borated sakea coating	Bleached (-)
782 T3	782 T3IV-9 56 TC8	Ceramic coaling black HS 4 on Li 900	Roughered, fextured
783 73	783 T31V-9-57 TC8	Ceramic coaling black HS 4 on U-900	Roughened, textured
784 13	784 T3IV 9 58 TC4	Black silrone high temperature paint Sperex SP 102	Bleached
785 13	785 T3IV-9-59 TC4	Black sticone high temperature paint. Sperex SP-102	Bleached
786 13	786 T3IV 9 60 TC:	Tollon FEP polymer coaling Sprayton 7075	Discolored, distorted
787 [13	787 T31V 9 61 TC1	Tellon FEP polymer coaling Sprayton 7075	Discolored, distorted
765 13	788 T3IV 8 62 183 4	Thm tim solar cell, CulnSe2/CdS	Missing
789 13	789 T3IV 8 63 B	Thin film solar cell, standard Si	Missing
790 13	790 T3IV 8 64 7	Composite to composite (T 300/934) achesive joint/Hysol EA 9628 epoxy	Discolored (+)
791 13	791 Taiv 8 65 9	Composite to composite (1 330/934) achiesve join/Hysol EA 9628 epoxy	Discolored (+)
792 13	792 TUIV & 66 11	Composite to composite (T-300/934) achesive joint/Hysol EA 9628 epoxy	Discolored
793 13	793 T3IV 8 67 25	Graphite/polysulone (T-300/ P-1700 polysulfone resin (07/-90"))	Discolored
794 13	794 T3IV 8 68 103	Graphsterepory (conditioned) (T-300 unidirectional tape/Fiberite EA 934 epoxy resin [0"])	Crazed
195 [13	795 T31V 15 69 Z2	Rhodium coaled glassy carbon substrate	Hazed, flaked
796 [13	796 [T3IV 17 70 T	The molumine scent dosimeter Lif	Unchanged
756 5 T3 V	3 V	Various materials, composites and metals	Discolored, cratered
57 797 T.S	797 TSIV 4 71 3	Standard 350rm coating on 7940 fused silica. Definin retainer, OCLI	Contaminated (particle)
	798 T3IV 4 72 7	Reliective 350nm coating on 7940 fused silica. Delim relainer. OCLI	Contaminated (particle)
793 13	793 T31V 4 73 11	Reflective 350: m coating on Ceria Delim relainer, OCL1	Hazed, contaminated (particle)
600 13	600 T31V 4 74 15	Reflective 350nm coaling on 7940 fused stica Deltin retainer, OCL1	Microfractured, contaminated (particle)
801 13	801 T3IV 4 75 19	HEA coating 3 ton 7940 fused silica, Delinn retainer, OCL!	Contaminated (particle)
692 13	692 T31V 4 76 23	Mark III D coating on 7940 fused sitica. Defini retainer, OCL1	Microfractured, contaminated (particle)
803 13	803 T3IV 4 77 27	Mark III E coating on 7940 fused silica, Delrin retainer, OCLI	Microfractured, contaminated (particle)
604 73	604 T3IV 4 78 31	Contamination coating on 7940 fused silica, Delrin retainer, OCL1	Contaminated (particle)
805 11	805 T3IV 4 79.35	Erosion coaling on 7940 fused silica. Delrin retainer, OCL1	Microfractured, delaminated, contaminated (partic
806 13	805 T31V 4.80.39	Erosion coating on 7940 fused silica, Delvin relainer, OCL1	Microfractured, contaminated (particle)
807 13	807 T3IV 4 81 43	Mark IV coaling on 7940 fused sifted. Delrin relainer, OCL!	Microfractured. contaminated (particle)
808 73	808 T3IV 4 82 47	Contamination coating on 7940 fused stitca. Delvin retainer, OCL1	Contaminated (particle)
809 T3	809 T3IV 4 83.51	7070 fused sites. Delvin retainer, OCL1	Hazed, microfractured, contaminated (particle)
810 T3	810 T3IV 4 84 55	7940 fused sitica. Dekin retainer, OCL3	Contaminated (particte)
811 13	811 T31V 4 65 59	7940 fused sittes, Dekn relainer, OCLI	Contaminated (particle)
B12 F3	612 T31V-4-86 63	Ceria, Dekin retainer, OCLI	Contaminated (particle)
613 13	613 T3IV 16 87.A	HA 43 polyantacetylene (PAA)/T300 carbon fabric composite	Crazed
814 13	814 T3IV-16-88-B	Aerospace polyarytacetytene (PAA)/T300 carbon tabric composite	Unchanged
815 13	615 T3IV-16-89-C	HA-13 polyarylacelytene (PAAl/polyphenylquinoxyline (PPO) blend/1300 carbon labric composite	Unchanged
816 T3	616 T3IV. 16-90-D	HA-43 polyarylacelylane/ polyphenylquinoxyline blendiLow temp PAN composite	Unchanged
817 16	817 TEIN 9-1 TC14-6	LMSC modified Cotronics 931 coating on Ta substrate	Contaminated (stain, particle)
618 T6	616 Tem 9.2 TC15.25	JB-1 black coating on Ta substrate	Crazed, bleached, contaminated (stain)
819 Te	619 Telli 9.3 TC16 7	Vestar coating on Al substrate	Discolored (+). crazed (+). flaked

OBs Sample ID	_	Description	Post-Flight Condition
820 T5III. 9.4 TC17.3	C17.3	GE SHC 1010 coaling on Al substrate	Discolored (+)
821 T6H 9-5 TC18 3	C18 3	Tedar (400BS30W11) bonded to Al with Isolack Y9469	Discolored (+), contaminated (particle)
622 TGIII 9 6 TC19 3	C19.3	Black oxide coating on 304 stainless steel substrate	Bleached, contaminated (stain)
823 TGII 10.7 GL2 2	GL2 2	Graphile/glass Celion 6000/borosilicate glass	Cracked, contaminated (particle)
824 TGIII 10 8 ALS	ALS B	Huror GY70/201/2024 clad (0/+60')s	Unchanged
824 S TGIII 10 9 MG7	MG7	VS6054:EZ33A/AZ31B 0!60 s	Unchanged
825 T6111 9 9 CM47 3	M47 3	Sup P755/F593	Bleached (·)
826 T6III 9 9 CM47 6		Strp P75S-F593	Bleached (·)
827 TGH 9 10 CM48 1	CM48 1	Sup P75S:934	Contaminated (stain)
828 TGIII 9 10 CM48 4		Strip. P75S/934	Contaminated (stain)
828 01 T6111 10 10 AL7 6		Sirp GY70/201/2024 clad (0/±60 }s	Unchanged
829 TGIH 10 11 MG7	u)	Sup P100/E233A/AZ318 (5 ply). epsil meas . SG20	Confaminated (stain)
830 T611 10 12 AL7 4		Surp GY70/201/2024 clad. (0/±60%)s epsilon meas., SG19	Contaminated (stain, particle)
831 01 TGIII 10-13		Wire P100/AZ61A (Tr + B)	Conlaminated (stain)
831 02 15111 10 13	3 2	Vine P100:AZ51A (T1 + B)	Contaminated (stain)
831 03 TGIII 10 13	3 3	Wire P100:AZ51A (Tr + B)	Contaminated (stain)
831 04 15111 10 13	3.4	Wire P100/AZ61Z (Tr + B)	Contaminated (stain)
C. 832 01 TGHI 10 13 5	3.5	Wire P55 (T.02):5061 AI (Ti + B)	Contaminated (stain)
832 02 16111 10 13	3 6	Wire, P55 (TiO2)/6061 At (Ti + B)	Contaminated (stain)
833 01 TEH 10 13 7	3.7	Wire. GV70 (8T)/201	Contaminated (stain)
833 02 16111 10-13 8	88	Wine GY70 (81)/201	Contaminated (stain)
834 01 T5111 10 13-9	3.9	Wine. PSS/6061AI (Ti + B)	Contaminated (stain)
834 02 TGH 19-13 10	0 10	Wire P55/6061 (Tr + B)	Contaminated (stain)
835 1646 10 13	30 30 80	Wire. T300:6061A!	Contaminated (stain)
836 16111 10 14 12	1 12	Wire. T300/5061AI	Contaminated (stain)
837 01 16111 10 14 13	1 13	Wire. P100/6061AI (Ti + B)	Contaminated (stain)
837 02 16111 10 14 14	1 14	Wire. P100/6061AI (Ti + B)	Contaminated (stain)
837 03 TGHI 10 14 15	1 15	Wire P100/6061AI (Ti + B)	Contaminated (stain)
837 04 TSH 10-14 16	1 16	Wire P100/6061Al (Ti + B)	Contaminated (stain)
838 01 16111 10 14-17		Wue, P55 (10K) 6061AI	Contaminated (stain)
838 02 16111 10 14 18		Wire, P55 (10K) 6061AI	Contaminated (stain)
836 03 16111 10 14 19		Wire. P55 (10K) 6061AI	Contaminated (stain)
838 G4 TGHF 10 14 20	1 20	Wae. P55 (10K) 6061A	Contaminated (stain)
639 01 16111 10 14 21		Wire, P100/AZ31B (Ti + B)	Contaminated (stain)
839 02 T6HI 10 14 22		Wire. P100/AZ31B (Ti + B)	Contaminated (stain)
840 T6III-10-15-AL3-12		Skip. GY70/201/2024 clad. (0) eps/ meas., SG18	Contaminated (stain)
841 T611 10-16 AL14 11		Strip. P55/606/16061A1, (g) epsi meas. SG17. CTS1	Contaminated (stain)
842 TSHE 10 17-AL15-4		Sinp. P55/6061/6061AI, (90) epst. meas., SG16	Contaminated (stain)
843 T6H 10 18 AL4 3		Strip. GV70r201/2024 clad, (90)	Contaminaled (stain)
844 TGHI 10 19 AL4 4	4 AL4 4	Strep. GV70:201:2024 clad. (90)	Contaminated (stain)

845 TGIH 10 20 AL3 5	Strp. GY70/201/2024 clad. (0)	Contaminated (stain)
846 TGHE 10 21 ALS 5	Sup. GY70/201/2024 clad. (0)	Contaminated (stain)
647 T6111-10-22-ALS 11	Sirp. GY70/201/2024	Contaminated (stain)
848 T 6111 10 23.ALS 12		Contaminated (stain)
849 TGIII 10 24 EP1 4		Contaminated (stain)
ESO TEHN 10 25 MG9 T1	Strip P100/AZ91C:AZ61A (90)	Distorted, dulled, contaminated (stain)
651 TGIR 10 26 PS5 3		Discolored, cracked, contaminated (stain)
652 T6# 10 27 PS5 4	Rivoted tap. 722(Graphite:Glass weave):P1700/TiO2 coating	Discolored (+). cracked, contaminated (stain)
653 T6III 16 28 SS1 9	Sup invar LR35	Contaminated (stain)
854 TGIII 10 29 EP22 5		Contaminated (stain)
655 TGH 10 30 PS2 5		Contaminated (stain)
856 TGIII 10 31 PS2 6	Stup W 722(Graphite/Glass fabric)/P1700	Contaminated (stain)
857 TGIII 10 32 PS3 3	Sing. W.722(Graphite/Glass labnc)/P1700/TiO2 coating	Discolored (+). cracked, contaminated (stain), crate
858 TEIN 10 33 PS3 4	Strip. W 722(Graphite/Glass Tabric)/P1700/TiO2 coaling	Discolored (+), cracked, contaminated (stain)
659 TGIII 10 34 EP3 5	Surp T300 tape/934 (0)	Contaminated (stain)
860 16111 9 35 MPS C 1	Sirg, LAC 23 4688, elastomer	Crazed (+). distorted (+), buckled
861 T6111 10 35 EP3 6	Sinp. 1309 tape/934 (0)	Contaminated (stain)
S 862 01 T6111 10 37 23	Wire, P100/AZ318 (Tr + B)	Contaminated (stain)
863 02 16111 10 37 24	Wire, P55 (10K) A291C	Contaminated (stain)
863 03 T6III 10-37-25	Wire, P55 (10K) AZ91C	Contaminated (stain)
863 04 16111 10 37 26	WHE. P55 (10K) A291C	Contaminated (stain)
864 01 16111 10 38 27	Wire, SiC/6061AI	Contaminated (stain)
864 02 T6III 10 38 28	Wire, SiCr6061AI	Distorted, contaminated (stain)
864 03 TGH 10 38 29	Wire, SiCr6061A1	Contaminated (stain)
864 04 15111 10 38 30	Wire, SiC/6061AI	Contaminated (stain)
864 05 166111 10 38 31	Wae, SiCr6061Al	Contaminated (stain)
864 06 76111 10 38-32	Wire, SiC/6061AI	Contaminated (stain)
664 07 T6111 10 38 33	Wire, SiCr6061A!	Contaminated (stain)
864 08 16111 10 38 34	Wire, SiCi6061AI	Contaminated (stain)
864 09 T5111:10 35:35	Wire, SiC/6061AI	Contaminated (stain)
864 1 76111 10 38 36	Wire, SiC:6061Al	Contaminated (stain)
864 11 T6H- 10 38 37	Wire. SiCr6051A)	Contaminated (stain)
864 12 16111-10-38-38	Wire, SiCi6061AI	Contaminated (stain)
864 13 T6111 10 38 39	Wire, SiCi6061AU	Contaminated (stain)
864 14 T6111 10 38 40	Wire, SiCi6061A1	Contaminated (stain)
864 15 76111 10 38-41	Wire, SiC/6061AI	Contaminated (stain)
864 16 T6111-10 38-42	Wire, SiCr6061At	Contaminated (stain)
864 17 T6111 10 38-43	Wire, SiCr6061AI	Contaminated (stain)
864 18 76111 10 38-44	Wire, SiCr6051Al	Contaminated (stain)

Š	4		Post-Flight Condition
	and and and		Contaminated (stain)
865	866 1616 10 40 551 2	Strip, Inval LR35, epsi meas, SG14	
867	TEH 10 41 551.4	Sind Invat 1835, epsi meas. SG13. CTS-2	Contaminated (stain)
		Communication of the clade (0)	Contaminated (stain)
202	665 1616 10-42-AL12-7		Contaminated (stain)
869	TGH 10 43 AL 12 B		Contaminated (stain)
870	TGIII 10 44 AL12 9	Sing. VSB32/5061 T6/5051 At clad (0)	Distant Autor contaminated (stain)
871	TGIII 10 45 MG9 T3	Strip P100:A291C/A261A (90)	Distorted, duried, company and (State)
67.5	TRUE IN 45 At 1 6	Stire GY70:201:2024 clad. (0)	Contaminated (stain)
	Tem 16 47 MG5 13		Distorted, dulled, contaminated (stain)
7 4 6		w 722/Graphite/Glass Jahric	Discolored (+), crazed, contaminated (stain)
874	674 (611) 10 46 755 6		Discolored (+). crazed, contaminated (stain)
875	16111 10 49 954 2	Company Control of the Control of th	Discolored, crazed, contaminated (stain)
916	16HI 10 SO PSS 6		Discolored, crazed, contaminated (stain)
877	Tell to St PS6 2	Rivated tap W 722(Graphile/Glass tabuc)/P1/09/1102 coaling	Discolored crazed
876	TEIL 10 52 PSE-5	Sinp. W 722(Graphile/Glass Tabric)/P1700/ZnO coaling	Ciscolord, crazed
879	879 TGIII 10 53 PS4 6	Strip W-722(Graphite/Glass fabric)/P1700/ZnO coating	Discolored (+). crazed, comanimated (stain)
680	1 FEITH 10 S4 GL 1 2	Simp graphite/glass Celon 6000/borositicate glass	Unchanged
3 6 6	Tem to \$5 EP12 3		Conlaminaled (stain)
	Test to Se Coto.	\$56/55/d	Contaminated (stain)
200	21.43 65 61 110.1266	ACCISOR & A	Discolored
हे 59	9 - 12 /6 01 11101		Discolored
	684 T6111 10 55 EP4.7	Sirp. As/asul o [6]	Crazed discolored contaminated (stain), cratered
885	Teili 9 59 50 J	Strip. Soldal J coating (A. DC93-500/ B. H.2500)	Disselved continuous (clain)
687	687 TEH 9 61 SO.C	Strip. Soldal C ccaling. (A. Electrodag 502/ B. Electrodag 501)	Discolored, contaminated (stair)
80	889 TEIN 10 63 EP3 2	Ship 1300 tape/934, epst meas, SG12, CTS 13	Discolored
000	11 TELLE 10 64 EP4-3	Sup. AS/3501-6, epst meas. SG11	Contaminated (stain)
	TEIL 10 65.PIS 3		Contaminated (stain)
6	C + 30 93 04 11191		Discolored
269	2.15.1 00 00 13.5		Contaminated (stain)
9	2.21. 10.01 110.1	Carry graph and constant takes and mose SG7	Contaminated (stain)
769	1 16111-10 65 EPT-3	Sup. Gitterate (Grandelaste)	Distorted, dulled
160	895 T611 10 69-MG9 L6	SEED.	Distorted contaminated (stain)
969	S TEHE 10 70 MG4 3	Strop.	Contaminated (stain)
269	TEH 10 71 MG4 14	Strip	
868	3 TEIN 10 72 PIE 6	Sixp. Celton 6000/PMR-15, epst meas. SG3	Contaminated (state)
899	3 TGILL 10 73 PS11.2		Discolored
5	900 TEIR 10 74 MGS-22	Sign	Contaminated (stain)
0	901 T6III 10:75-1659-1.7	Strip. P100/AZ91C/AZ61A (0")	Distorted, contaminated (stain)
Ü	902 TEU 10-76-EP13-4		Contaminated (stain)
	042 TKIII 10 77.ED15.2	ouis:	Discolored (+)
	203 10th 10 71 C) 13 C		Contaminated (stain)
3	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	The second management of the second s	Contaminated (stain)
000	5 16111 10 /9.ALD 3		Discolored
7	2.02 -1.02.02.01.110.10.00		Discolored (+)
28	907 TGIII 10 81 PS6 5	HIVORGO LAD. W-722 Graphite/Grass repriet 100/210 Commy	

086	Sample 10	Description	Post-Flight Condition
808	8 T6111 10 82 PS6-6	Rivoted tap. W-722 Graphite/Glass tabric/P1700/ZnO coaling	Discolored (+), contaminated (stain)
606	9 TGIII-10 83 EPS-2	Sinp. GY70X904B. (0)	Bleached
016	0 T6111 19-84-EP6-2	Sup. GY70/X9948. (0/90/90/0)	Contaminated (stain)
316	1 TEH-9 65 MPS C 2	Simp LAC 23 4668, elasiomer	Crazed (+). distorted (+). outgassed (+)
912		Sup GY70/x3048 (+45/1 45)2/+45/4T	Contaminated (stain), cratered
913	3 Ten 10 87 EP22 2	Sup GY70/CE 339 (0/45/90/135)S2	Contaminated (stain)
	914 TGIII 10 86 AL 14 16	Sirp VSB3226061 T6/6061 At clad (0)	Unchanged
918	5 TGIII 10 89 PI1 S	Sinp Celian 6000/PMR 15 (0)	Contaminated (stain)
916	6 T6111 10 90 PIZ 4	Strp 1300/V376A-160	Contaminated (stain)
716	/TGIII 10 91 PS1 4	Skip 1360 (abric/91760 (0.90)	Contaminated (stain), crazed
316	918 T6111 10 92 MG6 3	Sinp VS0054/E233A:A2318 clad (90)	Distorted, contaminated (stain)
919	9 TGHE 10 93 AL31 7	Strip SiC whiskers/5061Al	Contaminated (stain, particle)
920		Strip. SrC whisherst2124 At	Contaminated (stain, particle)
921		Strip GY70/201/2024 clad. (90)	Distorted, contaminated (stain)
922	2 TEIR 10 95 ALI4 4	Sirp VSB32/6051-T6/6061 Al clad (0)	Contaminated (stain)
.26	923 T6III 10 97 AL32 6	Sinp Sic fiber, SC S2/N	Contaminated (stain)
924	4 T6111 10 98 PS13 1	Sing T388/polyether sulfane/ZnO coating	Discolored (+). contaminated (particle)
6 925	S T6III. 10 99 PS13 2	Strp. T300/polyether sulfane/ZnO coating	Discolored (+), contaminated (particle)
956	6 T6111 10 100 MG3 18 SIMP	Sinp VS0045/E233/A2318, clad (0) epsilon meas SG6, CTS 4	Contaminated (stain)
927	7 TGIII 10 101 PS2 2	Strp. W-722 (Graphile/Glass Labric)/P1700 epsilon meas., SG5	Discolored, contaminated (stain), crazed
926	928 TEHI 10 102 EP22 8	Strg. GY78/CE339 (0/45/90/135)S2 epsilon meas. SG4	Bleached
626	9 75111 10 103 14G5 3	SIMP. VSQ05A/EZ33VAZ318 clad. (0)	Distorted, contaminated (stain)
930	0 T6111-10-104 EP13 3	Stup GY70/934 (0/45/90/135)S2	Contaminated (stain)
931	TEH 9 105 MPS C 4 SIND	Sinp LAC23-4688, elastomer	Crazed (+), distorted (+), outgassed (+)
932	2 TGHH 10 106 AL32 7 SUP.	Sinp. Sic liber, SC SZ/M	Contaminated (stain)
933	933 TGIII 10 107 PS14 1 SIMP.	Sirp. 1300/pollyether sulfone/TiO2 coating	Contaminated (stain)
934	4 T6111 10 108 PS12-1 Sup.	Strp. T300/potyether sulfone/with leating Al coaling	Discolored (+)
935	5 T6111 10-109-EP2 5	Sinp. GV70/X 30[0/45/90/135]S2, Sn-In Euteclic coating	Contaminated (stain)
936	6 T6111-10 110-AL33 1 SIMP.	Sinp. P100/201/2024 AI (+20"/-20")S	Contaminated (stain)
937	7 T616 10 111 AL33 8 Sup.	Strip. P:00/201/2024 At (+20"/ 20"/S	Contaminated (stain)
938	5 T6111-10 112 MG10-4 Strp.	Strp. P100/AZ91C/AZ61A (+10-7-10")S	Dulled, discolared
939	9 TGIII 10 113 MG10 6 Sup.	Sup. P100/AZ91C/AZ61A (+10"/-10")S	Dulled, cratered
940	0 T6H 10 114 EP21 3 SHP.	Strp. P75S/CE-339, (0/45/90/135)S4	Contaminated (stain)
146	TGIII-10-115-EP21-4	Strip, P75S/CE-339, (6/45/90/135)S4	Discolored
70	942 TEIN 9-116-WI	Coaled wire, Mil-W-22759/32	Discolored (+), cracked
676	3 TGIII-10-117-P15-5	Strip. T360/V376A. (0/45/90/135)S2	Contaminated (stain)
776	4 T611 10-118-P15 6	Sirip. T308/V378A, (0/45/90/135)S2	Contaminaled (stain)
845	S TGIII-10 119-PS1-10	Strip. 7350 (abric/P1700, (0.90)	Discolored
946	6 T6til. 9. 120. S0 O	Strip. Soldal O coating: (A. DC93-500/ B, R-2501)	Crazed, discolored, contaminated (stain)
176	948 TEH 10 122 PIL	Strp. Celion 6000/polyimide	Contaminated (stain)

949 T6III 950 T6III 951 T6III 952 T6III 954 T6III			
950 T6III 951 T6III 952 T6III 953 T6III 955 T6III	T6III 9-123 TC14 9	LUSC modified Coltonics 931 coaling on Ta substrate	Unchanged
952 TGHI 953 TGHI 953 TGHI 954 TGHI 955 TGHI	-9 124 TC15-25	950 T6III-9 124 TC15-25 JB-1 black coaling on Ta substrate	Crazed
	T6III-9-125-TC16 8	Vestar coating on Al substrate	Crazed, flaked
953 T6HI 954 T6HI 955 T6HI	T6III 9-126 TC17 5	GE SHC 1010 coaling on Al substrate	Unchanged
954 1688	T6111 9 127 TC18 4	TeGar (4008S30W11) bonded to Al with Isolack Y9469	Contaminated (particle)
955 7611	T6111 9 128 TC19 4	Black onde coaing on 304 stainless steel substrate	Unchanged
956 760	T6111 10 129 ALE 3	Mirror GY70:201/2024 clad.(0/160)s	Unchanged
1	TEH 10 130 ALB 5	Marce GY70/201/2924 clad. (0/±60')s	Unchanged
11191 / 26	T6111 9 131 CM47 1	Sinp P75S/F593 102 270	Contaminated (stain)
958 TGIII	958 T611 9 131 CM47 4	Sup P75S/F593 102-270	Contaminated (stain)
959 16111	955 TGIII 10 131 AL7 3	Sinp. GY70/201/2024 clad (0/±60)s	Contaminated (stain)
960 16111	960 TGH 9 132 CM48 2	Sirg. P75S/934, 102 15A	Contaminated (stain)
961 16111	TGIST-9 132-CM48 5	Sup. P75S/934, 182 15A	Contaminated (stain)
962 T6111	962 TGIII 10 132 AL7 7	Sing. GY70/201/2024 clad. (0/±60')s	Contaminated (stain)
963 TGIII	963 TGIII 10 133 AL7 14 SIND	Sup GY70:201 dad (0/:60)s	Unchanged
964 7611	964 TGHE 10 133 ALT 15 SUP	Strip GY70:201 clad (0/160 ls	Contaminated (stain)
965 1611	965 TGIII 10 134 AL7 12 SIM	Sup GY70/201 dad (0/260*)s	Unchanged
S 966 Telli	10 134 AE7 13 Strip	Sinp GY70/201 dad (0/±60)s	Unchanged
	967 TSIII 10 135 1	Wine. P100/A251A (Fi + B)	Contaminated (stain)
958 TGIII	T6111 10 135 2	Wire P55 (TiO2):6061 At (Ti + B)	Unchanged
969 T6111 10-135	10-135 3	Wire GY70 (81):201	Unchanged
970176111	10 135.4	Wire, P55/6061 A! (Tr + B)	Unchanged
971 TGHI 10 135	10 135 5	Wire T3006061AI	Unchanged
972 76111 10 135	10 135 6	Wire P100:5061 A (Tt + B)	Unchanged
973 TGIII 10 135	10 135 7	Wur. P55 (10K)s5061A1	Unchanged
974 1611	T6H-10-135-8	Wire. P100/A2318 (Ti + B)	Contaminated (stain)
975 T6111	975 T6111-10-135-9	Wire. PSS (10K)/AZ91C	Contaminated (particle)
976 15111	15111 10 135-10	Wire, SiCi6061AJ	Unchanged
977 01 16111 10 136.11	10 136.11	Wire. SiCi6051AI	Unchanged
977 02 T6111-10 136 12	.10 136 12	Wire. SiCi6061A1	Unchanged
977 03 TGIII: 10 136-13	10 136-13	Wine SiCr6061A1	Unchanged
977 04 TGHI 10 136-14		Wire, SiCr6061AJ	Contaminated (stain)
978 16111	978 T611 10-137-AL3-10	Strp. GY7020172024 clad. (0)	Distorled
979 1611	T6111-10 138-AL3-11	Strip. GV70:201/2024 clad. (0)	Unchanged
980 76111	980 TGIII- 10-139-AL3-13	Strip. GV7020112024 clad. (0)	Unchanged
981 1611	T6111-10-140-AL4-7	Strip. GY70r201/2024 clad. (90)	Unchanged
982 T6111	TGIII-10-141-AL4-8	Strip. GV70/201/2024 clad. (90)	Unchanged
983 1688	16111-9-142-MPS-C-5 Strip.	Strip. LAC 23-4688, elastomer	Distorted, contaminated (particle)
984 1611	984 T6III-10-143-ALS 6	Strp. GV70201/2024 clad. (0)	Unchanged
985 16111	985 T6III 10 144 ALS 13 SIM.	Strip. GY70/201/2024 clad. (0)	Unchanged

DBC	Sample 10 Das	Osscription	Post-Flight Condition
986	TOH! 10 145-ALS-14 SIM.	o, GY70281/2024 clad. (9)	Unchanged
987	T6111-10-146 EP1-7 Strip.	5. GY70/X·30 (0/45/90/135)¥	Unchanged
996	T6111 10-147 EP1-8 Strip.	3. GY7e/X-30 (0/45/90/135)4	Contaminated (stain)
686	T6111 10 148-PS5-8	Rivoted tap. W-722 (Graphite/Glass tabric)/P1700/TiO2 coating	Discolored (-). cracked
066	16111 9 149-HPS-C-6 Strp. LAC 23-4688, elastomer	r, LAC 23-4688. elastomer	Distorted, contaminated (particle)
166	T6111 10 150 SS1 10 Sup.	, invar LR35	Distorted
266	T6111 10 151 PS2 10	Strp. W 722 (Graphite/Glass labric)/P1700	Contaminated (stain)
663	T6itt 10 152 PS2 11 Stup	W 122 (Graphite/Glass fabric)/P1700	Discolored, contaminated (stain)
766	T6111 10 153 PS2 12	W 722 (Graphite/Glass Tabric)/P1**00	Discolored
566	T6111 10 154 PS3 10 Sinp.	. W-722 (GraphsterGlass labric)/P1700/TiO2 coating	Contaminated (stain). cracked
966	T6111 10 155 PS3 11 Stup	W 722 (Graphite/Glass Jabric//P1700/TiO2 coaling	Discolored, cracked
266	TEH 10 156 EP3 10 SIND	. 1300 tape/934 (0)	Unchanged
866	Telli 10 157-EP3-11 Sim.	. T300 tape/924 (0)	Contaminated (stain)
666	999 Telli 10 158 EP3 12 Sim	. T300 tape/934 (0)	Contaminated (stain)
1002	TGIE 10 151 ALE 4 SEED	GY70/201/2024 clad. (90)	Unchanged
1003	1003 T6H 10 162 ALE 8 Sup	GY76:201:2024 clad. (90)	Unchanged
1004	1004 TEH 9-163-MPS C 8 SIND.	. LAC 23-4688. elastomer	Unchanged
5001	1005 TEHE 10 164. A. 12 1. Sup.	. VSB32/6061.15/6061 Ai (0)	Unchanged
1006	Tell 10 165.AL12.1 Simp.	. VSB32/6061-T6/6061 A! (0)	Unchanged
1002	1007 TEHI 10-166-AL12-1; Sim.	. VSB32/6061-T6/6061 AI (0)	Unchanged
1008	Telli 10-167-GL3-3 Sim.	. graphile/glass: Celion 6000/horosilicale glass	Unchanged
1 6001	Telli 9 168-S0 D Skip.	Sirp. Soldal D coaling (A. Electrodag 502/ B. Electrodag 501)	Unchanged
1011	T6111- 10 170-PS3-12 Strip.	. W 722 (Graphite/Glass fabric)/P1700/TiO2 coating	Discolored, cracked
1012	TRIB-10 171 PS4-16 Stip.	1012 This 10 171 PS4 10 Stip. W-722 (Graphile/Glass Tabric)/P1700/ZnO coating	Conlaminated (stain). cracked
1013	T6111 10 172 MGS-14 SINF.	1013 T6111 10 172 MGS-14 SIII; VS0054/EZ33A/AZ318 clad (0)	Distorted, dulled
1014	1014 TEHL 10-173 PS6-8 Rivol	Rivoted tap W-722 (Graphite/Glass 1.Jbric)/P1700, ZnO coating	Contaminated (stain), cracked
1015	TEHH 10 174 PS4 11 SHIP.	1015 TEIH 10 174 PS4 11 Stip. W-722 (Graphile/Glass fabric)/P1700/2nO coaling	Contaminated (stain)
1016	T6111 10 175.PS4 12 Sup.	Stup, W-722 (Graphite/Glass labric)/P1700/ZnO coating	Contaminated (stain)
1017	1017 TEHL 10 176 PSI 8 SIND.	T300/P1700	Unchanged
10:8	10:8 TEHH 10 177 EP12.7 SIND.	. P75S1934, (0/45/90/135)S2	Unchanged
10101	1019 T6III-10 176-EP12-8 SIND.	. P75S/934, (0/45/90/135)S2	Contaminated (stain)
10201	1020 T6111 10 179 EP4 11 SIMP.	. AS/3501-6 (0)	Unchanged
1021	16111-10-180-EP4-12 Strp.	AS/3501-6 (0)	Unchanged
1022	T61# 10-181-EP4-13 Strp.	AS/3501-6 (0)	Contaminated (stain)
1023	T6111-10 162-P11-10 Strip.	Celien 6000/PMR-15 (0)	Contaminated (stain)
1024	T6111-10-183-AL14-1: SIM.	VSB32/6061-T6/6061 AI clad, (0)	Unchanged
1025	T6111-19 184-AL14-3 Strip.	VSB32/6061-T6/6061 AI clad, (0)	Unchanged
10261	T6iit-19-185-AL14-1 Ship.		Unchanged
1027	1027 TSIII-10-186-AL15-5 Sup.	VSB32/6061-T6/6061 A! clad. (90)	Unchanged
10201	1028 T6III 10-187-AL15-1- Ship	VSB32/6061-T6/6061 AI clad, (90)	Unchanged

200	Sample 10 Description	Post-Flight Condition
8085	CONSTRUCTO CON EDITOR CYTOLE 339 (0/45/90/135)\$2	Contaminated (particle)
1036	Stre VS0054/EZ33A	Contaminated (stain)
103	Strp. VS0054/EZ33A/AZ31B.	Unchanged
1032	Sinp	Unchanged
1033	7	Dulled
1034	1034 TEHR 10 193 MG9 LB Strp. P160/AZ91C/AZ61A (0)	Dulled
1035	1035 T6111 10 194 EP13 7 Ship GY70/934 (0/45/90/135)52	Contaminated (stain)
1036	Strap	Dulled
1037	T6111 10 195 MGS 21 Strp VS0654EZ33A/AZ318 clad (0)	Contaminated (stain)
1038	TERE 10 197 MGS 10 Strp.	Unchanged
1039	16611 10 198 EP13 8 Stup GY70/934 (0/45/90/135)52	Contaminated (stain)
1040	T6111 10 199 EP18 1 Simp.	Contaminated (stain)
1901	Telli 10 200 EP19 1 Strip. T300/2 mil-3M 113 viscoelalic lape/5208	Contaminated (stain)
1642	T611 10 201 EP20 1 Sim.	Contaminated (stain)
1043	Sira	Unchanged
7501	Simp	Unchanged
1065		Unchanged
9901 6		Unchanged
3		Unchanged
1048		Unchanged
5901		Unchanged
1050	1050, Telli 10 209 AL30 3 Sirp. SiC whisters2124 Al	Unchanged
1054	1056 T6111-9-213-W2 Coaled wire. MIL-W-22759/32	Contaminated (stain), contaminated (particle)
1055	36 4	Unchanged
1056		Dulled
1057	1057 [1611 10.216 MG9-T5 Strip. P100/AZ91C/AZ61A (90)	Dulled
1054	1058 T611.9 217.50-K Strip. Soldal K coaking. (A. DC93-500/ B. A-2501)	Contaminated (particle)
1060	~	Contaminated (stain)
1061	1061 (1611 9 220 SO R Strip, Soldal R coating (A. DC93-500/ B. R.2501)	Contaminated (particle)
106	9	Contaminated (stain)
1054	1064 T6III-10 223 EP22-6 Strip. GV70/CE-339 (0/45/90/135)S2	Unchanged
106	1065 T6111 10.224 EP22-11 Strip. GY70/CE-339 (0/45/90/135)S2	Unchanged
106	1066 T6111 10 225 MG10-3 Strip. P100/AZ91C/AZ61A (+10"/-10")S	Dulled
105	1067 T611-10 226-MG10-8 Strip. P100/AZ91C/AZ61A (+107/-10")S	Dulled
106		Unchanged
106		Unchanged
107	•	Contaminated (stain)
107	1071 Telli 10.230.PS12.2 Strip. T308/polyether sullone/with lealing Al coaling	Unchanged
107	1072 T6III 10.231·EP21·7 Strip. P75StCE:339. (0/45/90/135)S4	Unchanged
302	1073 Tells 10 232 EP21 & Ship. P755/CE 339, (0/45/90/135)S4	Unchanged

0	Sample 10	Description	Post-Flight Condition
1074	1074 15111 10 233 715 10	Sirp. Celian 6000/PMR-15. (0)	Unchanged
1075	1075 T6111-10-234 PIS-11	Strip	Unchanged
1076	1076 TGIII-10-235-PIS-12		Unchanged
1077	T6111 10-236-PSt 12	Sinp. 1300/P1700, (0/90)	Unchanged
1078	TGIII 10 237 PIZ 8	Sing. graphite/LARC 160	Unchanged
1079	T6111 10 238 P12 9	Sing. graphite/LARC 160	Unchanged
1080	1080 TEH 10 239 PIZ 10	Sing. graphite/LARC 160	Unchanged
1001	T6111 10 240 AL32 3	Sup Sic fiber, SC 52/A	Unchanged
1085	T6111 10 244 AL32 5 Sup. SiC liber	Sup. Sic liber SC S2/N	Unchanged
1086	T6V1.5-1 A20	White paint TiO2:RTV 602, ML101, Air Force Materials Laboratory	Discolored (-). contaminated (particle)
1087	1087 TEVI 5 2 A18	White paint alpha AI203/RTV 602, ML101. Air Force Materials Laboratory	Discolored (·)
1088	TGVI 5 3 A16	White pant RIS 43G NASA Goddard Space Flight Center	Discolored (·). crazed. contaminated (particle)
1089	T6VI 5 4 B5	Ag mirror/Al	Corroded (*)
1090	T6VI 5 5 A14	White paint, Staglo, IITRI	Discolored (-). contaminated (particle)
1601	1091 TEVI 5 6 ALL	Kapton:Al, 5 mil Sheldahl	Unchanged
1092	16VI S 7 A7	Tellon FEP/Aginconel. 2 mJ. Sheldahi	Hazed
1093	T6V! 5 8 A1	Qualiz (atkic 581 (Astroqualiz)/Teflon FEP/Al General Electric	Discolored (·)
7601	T6VI S 9 A21	White paint, BC92-007 TiO2/RTV 3140, Rockwell Int	Discolored (-), contaminated (particle) (+), wrinkl
	1095 TEVI 5 10 A19	White paint, PV100 TiO2/sixcone resin, ML101. Air Force Materials Laboratory	Discolored (.). contaminated (particle)
1096	1096 TEVI S 11 A17	White paint, Eu2O3/RTV 602. ML101. Air Force Materials Laboratory	Discolored (·)
1601	T6VE 5 12 A15	White part, YB-71, IITRI	Crystallized
1098	T6VI 5 13 A13	White part, 293, 11TRI	Unchanged
1099	1099 TEVI 5 14.AB	telion FEP/Ag/Inconel. 5 mil. Sheidahl	Roughened
1100	1100 TEV! 5 15 A6	7µm quant fabric chemical and heat cleaned (+450°C), adhesive bond, General Electric	Discolored
1011	T6VI 5 16 B4	Al mincrigiass	Microfractured
1102	T6VI 5 17 82	Optical Solar Reflector, OCLI SI-100 with conductive coaling	Corroded
1103	1103 T6VI S 18 B1	Opical Solar Reflector, OCLI SI-100	Corroded
1104	1104 T6VI 5 19.82	Au missor/Al	Contaminated (stain)
1105	T6VI 13:20-A	AgiTellan FEP-covered aperture plate on cassette containing 25 optical samples	Cover hazed, discolored (·)
1105 01	1105 Ot T6VI-13-20-01A	Flexible reflector Denisa silver/ Al	Unchanged
1195 02	1105 02 TEVI 13 20 02A	Refrective MLI relainer AI2G3(0 3255µmm) / Ag(0 2µm) /AI2O3 (0 0245µm) / VESPEL	Unchanged
1105 03	1105 03 T6VI 13-20 03A	Fial solar reflector Leafing Al paint (polysilicate binder)/ Al	Unchanged
1105 04	1105 04 T6VI-13-20-04A	Fiat solar reflector Barner anodize/ At	Hazed (·)
1135 05	1135 05 T5VI-13-20-05A	Flexible reflector. At203(0 3255 µm)/ Ag(0.2µm)/At2O3(0.0323 µm)/ 2 mil Kapton	Microfractured
1105 06	1105 06 TEVI 13 20 06A	Flexible reflector AI2O3 (0 3255 µm)/Ag (0 2µ m)/ AI2O3 (0.0323 µm)/ Al foil	Unchanged
1105 07	1105 07 TEVI-13 20.07A	Ceramic MLJ relainer MACOR	Unchanged
1105 08	1105 0F T6VI-13-20-08A	Radiator coaling: Boron nitride, grade HP	Unchanged
1105 09	T6VI 13.20.09A	Radator coaling BaF2/Ag/Al	Microfractured. chipped
1 501 1	1105 1 TSVE 13 20 10A	Flexible mirror Dielectric Stack, Al203/Ag/Kapton	Microfractured
1105 11	1105 11 T6VI-13 20-11A	Solar absorber Black chrome on nickel loil	Unchanged

OBs Sample 10	Description	Post-Flight Condition
1105 12 T6VI-13 20-12A	Wide band reflective stack	Cratered
	Thermal switch (non-linear) Non-Linear material/Ge	Unchanged
1105 14 T6VI 13 20 14A	Absorptive stack Dielectric stack/SiO2/A12O3/Ni-Au/ Be	Unchanged
1105 15 T6VI. 13 20 15A	Non-Incar material VO2/BaF2 , Honeywell	Hazed
1105 16 T6VI 13 20 16A	Sapphire second surface mirror	Contaminated (particle)
1105 :7 TEVI 13 20 17A	Sapphue cover sip	Microfractured ()
1105 18 TEV! 13 20 18A	Reliective Transmissive filter 2nS/SrF2/110/SiO2	Hazed
A61 02 E1 1/01 19 20 19A	Scanning honzon sensor Dielecting stack Ge	Contaminated (particle)
1105 2 T6VI 13 20 20A	Staring horizon sensor. Dielectric Stack/ZnSerDielectric stack	Confaminated (particle)
1105 21 TEVI 13 20 21A	Graphite polyimide/Fiberliax paper/Astroquariz 550/Astroquariz 581	Unchanged
1105 22 T6VI 13 20 22A	Graphite polymide/capacitive grid material/ceramic standolf/Astroquariz 581	Discolored (·)
1105 23 TGVI 13 20 23A	ECCOFONNOS	Unchanged
1105 24 T6VI 13 20 24A	Flexible defecting stack defecting stack/Kapton	Contaminated (particle)
1105 25 TEVI 13 20-25A	Graphite polyimide/Astroquariz 550/BN fabric	Discolored
1106 T6VI 6 21 H	Ag/Tellon FEP covered cassette holding 11 sun pumped laser coalings	Hazed, discolored ()
1106 01 16VI 6 21 11 1	Laser rod anti reflection coaling ZrO2/SiO2 on YAG	Unchanged
1106 02 T6VI 6 21 11 2	Easer mirror high reflectance coaling TrO2/SiO2 on silica	Contaminated (particle)
C 1106 03 T6Vt 6 21 ft 3	Lens and reflection coating. VitraloxMgF2 on Silica	Hazed
1106 04 T6VI 6 21 II 4	Telescope/gimbal high reflectance coating ZnS/ThF4:/Ag on silica	Corroded, contaminated (particle)
1106 05 TEVI 6 21 II.5	Telescopeigmbal high reflectance coating SiO2/AI2O3/Ag on silica	Unchanged
1 106 06 T6VI 6 21 12 6	Telescope/gimbal high reflectance coating SiO2/Ag on Cervil	Unchanged
1105 07 TEVI S 21 II 7	Solar telescope high reflectance coating. Electroplated Au on Ni/Al	Unchanged
1105 08 T6VI & 21 II 8	Solar refescope high reflectance coating. Auspinel on Ni/Ai	Corroded (·)
1106 09 TEVI 6.21 II 9	Wide band reflector coaling TiO2/SiO2 on silica	Flaked, contaminated (particle)
1106 1 1601 6 21 11 10	Winte I i reflector coating 2r02/SiO2 on silica	Hazed
1106 11 1601.6 21 11.11	Wide band anti-reflection coating A203/2r02/AgF2	Microfractured
1:07 T6VF-4-22-X2	Conventional sticon cells, 5 cell string	Microfractured, debonded
1108 T6VI. 12-23-5	Thermoluminescent dosimeter, Lif	Buckled, contaminated (stain)
1109 T6VI 11 24 05	ZnSe mirared plate	Missing, holder eroded
1110 76V1 11 25 5	Corning 7940 second surface aluminum mirror	Hazed
11111 TEVI 11 26-504	Aluminized lused sikes mirror	Contaminated (particle)
1112 TEVE 11 27-8G04	Low scaller black glass	Unchanged
1113 T6VI 11:28-C81 8	Gold coated copper mirror	Unchanged
1114 T6VI-11-29-NO4	Low scatter makel minor	Contaminated (particle)
1115 T6VI-7-30-36	Mirror, Ag . (ThF4/ZnS)*3 coating on polished molybdenum substrate	Hazed, cratered
1116 T6VI.7 31.4	Wirter, Ag . (AZO3/5)/2 coating on polished molybdenum substrate	Hazed, contaminated (particle)
1117 TEVI 1 32 B11	WO3 (UV keated)+IR dye/Al substrate	Discolored
1118 T6VF 1-33-C11	WO3 (UV treated)/polytrethane/Al substrate	Discolored
1119 T6VI 1 34 A11	WO3 (UV Irealed)/potywethane/Al substrate	Discolored
(120 1646-1 35 822	WO3 (UV kealed) IR dyz/N substrate	Discolored

1641 1 15 C22 WO3 (UV treated)polyturethane/M substrate 1641 1 21 ACAS WO3 (UV treated)polyturethane/M substrate 1641 2 10 OCS Froad SCOZ 1641 2 10 OCS WAPE coaling lambda (1 06) 2 Michituse ²¹ rice substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes substrate 1641 2 4 OCS WAPE coaling lambda (1 06) 2 Michitused sizes 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused sizes 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 5 OCS WAPE coaling lambda (1 06) 2 Michitused 1641 2 6 OCS WAPE (1 06) 2 Michitused lambda (1 06) 2 Michitused 1641 2 6 OCS WAPE (1 06) 2 Michitused lambda (1 06) 2 Michitused 1641 2 6 OCS WAPE (1 06) 2 Michitused lambda (1 06) 2 Michitused 1641 2 6 OCS WAPE (1 06) 2 Michitused lambda (1 06) 2 Michitused 1641 2 0 Michitused lambda (1 06) 2 Michitused 1641 2 0 Michitused lambda (1 06) 2 Michitused 1641 2 0 Michitused lambda (1 06) 2 Michitused 1641 2 0 Michitused lambda (1 06) 2 Michitused 1641 2 0 Michitused lambda (1 06) 2 Michitused 1641 2 0 Mich	6	S diamen	Deathlian	Post-Flight Condition
1122 [1541 2 13 6 22 WO3 (UV tested)polyurethane/M subsisse (1522 [1541 2 13 6 22 WO3 (UV tested)polyurethane/M subsisse (1522 [1541 2 13 6 22 WO3 (UV tested)polyurethane/M subsisse (1522 [1541 2 13 6 23 Pc				
1122 [16V1-137-A22] WO3 (UV treated)polyturethane/N substante 1121 [16V1-2 10 02] Francis SO2 1123 [16V1-2 10 02] Francis SO2 1125 [16V1-2 10 02] Francis SO2 1125 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1126 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1127 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1128 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1129 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1131 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1132 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1133 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1134 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1135 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1136 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused copper 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused sites substante 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused copper 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused coeping Experiment Power and Data System 1145 [16V1-2 10 02] Web2. coaling tambas 11 06/2 threb/fused covering Experiment Power and Data System 1145 [16V1-2 10 02] Web2. coaling tambas 11 02 04/2 tambas 10 04/2 tambas 10 04/2 ta	112		WOO (UV uested) polymethane. At substrate	Discolored
1122 16V1 2 18 005 Freed SCP2 Freed SC	112	2 TEVI. 1 37.A22	WO3 (UV treated)/polymethane/Ai substrate	Discolored
1125 T6V1 2 19 021 Froid SGC 1126 T6V1 2 40 029 Froid SGC 1126 T6V1 2 40 029 Froid SGC 1127 T6V1 2 40 029 Froid SGC 1128 T6V1 2 40 029 MgF2 coalong tumbed 11 06)2 thred/fused sikes substitute 1129 T6V1 2 40 021 MgF2 coalong tumbed 11 06)2 thred/fused sikes substitute 1121 T6V1 2 46 147 MgF2 coalong tumbed 11 06)2 thred/fused sikes substitute 1121 T6V1 2 46 147 MgF2 coalong tumbed 11 06)2 thred/fused sikes substitute 1122 T6V1 2 47 191 T6V4 MgF2 coalong tumbed 11 06)2 thred/fused sikes substitute 1123 T6V1 2 47 191 T6V4 MgF2 coalong tumbed 11 06)2 thred/ molydoknum substitute 1124 T6V1 2 47 191 T6V4 MgF2 coalong tumbed 11 06)2 thred/ molydoknum substitute 1125 T6V1 2 47 191 T6V4 MgF2 coalong tumbed 11 06)2 thred/ molydoknum substitute 1126 T6V1 2 47 191 T6V4 MgF2 coalong tumbed 11 06)2 thred/ molydoknum substitute 1127 T6V1 2 47 191 T6V4 MgF2 coalong tumbed coaper A surface 1128 T6V1 2 50 8691 Damond tumbed medal coaper A surface 1129 T6V1 2 51 Damond tumbed medal coalong coaper A surface 1130 T6V1 2 51 Damond tumbed medal coalong coaper A surface 1141 T6V1 2 55 90 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1442 T6V1 2 56 193 T6V4 MgF2 coalong tambed 11 96)2 thred/ molydoknum substitute 1442 T6V1 2 56 193 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1444 T6V1 2 56 193 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1445 T6V1 2 56 193 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1445 T6V1 2 56 193 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1445 T6V1 2 56 193 Damond tumbed medal coalong tambed 11 96)2 thred/ molydoknum substitute 1445 T6V1 2 56 193 Damond tumbed medal coalong tambed covering signal conditioning unit 1445 T6V1 2 56 193 Damond tumbed 11 96)2 panied M soc covering signal conditioning unit 1446 T6V1 2 56 193 Da	112	3 T6VI 2 38 005	Fused SXO2	Contaminated (particle)
1122 16.01 2 4.0 029 Fuzad S.Q.Z. 1125 16.01 2 4.0 029 Mg72 caaling lambda 11.061;2 intachluren' rikca substrate 1126 16.01 2 4.0 029 Mg72 caaling lambda 11.061;2 intachluren' rikca substrate 1127 16.01 2 4.0 12 Mg72 caaling lambda 11.061;2 intachlured sites substrate 1128 16.01 2 4.0 12 Mg72 caaling lambda 11.061;2 intachlured sites substrate 1129 16.01 2 4.0 12 Mg72 caaling lambda 11.061;2 intachlured sites substrate 1131 16.01 2 4.0 12 Mg72 caaling lambda 11.061;2 intachlured sites substrate 1131 16.01 2 4.0 11 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1131 16.01 2 4.0 11 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1132 16.01 2 4.0 11 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1133 16.01 2 5.0 16.0 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1134 16.01 2 5.0 16.0 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1140 16.01 2 5.0 0 Mg74 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1141 16.01 2 5.0 0 Mg74 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1142 16.01 2 5.0 0 Mg74 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1143 16.01 2 5.0 0 Mg74 Mg72 caaling lambda 11.061;2 intach molydenum substrate 1144 16.01 2 5.0 0 Mg74	112	4 T6VI 2 19 021	Francia SAU2	Contaminated (particle)
1120 1561 2 41 009 MgP2 coaling lambda (1 06) 2 IntaVlused sides subsitiate 1121 1661 2 42 013 MgP2 coaling lambda (1 06) 2 IntaVlused sides subsitiate 1122 1661 2 42 013 MgP2 coaling lambda (1 06) 2 IntaVlused sides subsitiate 1123 1661 2 45 Nt7 Poliched molybdenum 1121 1661 2 45 Nt7 Poliched molybdenum 1122 1661 2 45 Nt7 Poliched molybdenum 1123 1661 2 45 Nt7 Poliched molybdenum 1123 1661 2 45 Nt7 Poliched molybdenum 1124 1661 2 45 Nt7 Poliched molybdenum 1125 1661 2 45 Nt7 Poliched molybdenum 1126 1661 2 46 Nt7 Poliched molybdenum 1126 1661 2 46 Nt7 Poliched molybdenum 1127 1661 2 45 Nt7 Poliched molybdenum 1128 1661 2 45 Nt7 Poliched molybdenum 1129 1661 2 45 Nt7 Poliched molybdenum 1121 1661 2 45 Nt7 Polic	112	15 TEVI 2 40 029	Fund SO2	Contaminated (particle)
1122 16.V1 2 4.2 0.13 HgF2 coaining lambda (1 06)/2 thick/lused sites substitute 1.12 16.V1 2 4.0 M21 1.02 1.	112	6 T6VI 2 41 009	MgF2 coaling, turbida (106)/2 literializada cidica substrate	Crazed, contaminated (particle)
1129 16.V1 2 44 N21 Polsthed may Lambdá (1 06)2 hnch/lused sites subsitiale 1129 16.V1 2 44 N21 Polsthed mayboderum 1120 16.V1 2 45 N2 Polsthed mayboderum 1131 16.V1 2 46 N2 Polsthed mayboderum 1131 16.V1 2 46 N2 Polsthed mayboderum 1132 16.V1 2 48 N12 Polsthed mayboderum 1133 16.V1 2 48 N12 Polsthed mayboderum 1134 16.V1 2 48 N12 Polsthed mayboderum 1135 16.V1 2 48 N12 Polsthed mayboderum 1135 16.V1 2 48 N12 Polsthed mayboderum 1135 16.V1 2 48 N12 Polsthed mayboderum 1136 16.V1 2 48 N12 Polsthed mayboderum 1137 16.V1 2 48 N12 Polsthed mayboderum 1138 16.V1 2 53 B Baranda turned nickel coaled copper R surface 1140 16.V1 2 54 7 Damond turned nickel coaled copper R surface 1141 16.V1 2 55 9 Damond turned nickel coaled copper R surface 1142 16.V1 2 55 9 Damond turned nickel coaled copper R surface 1144 16.V1 2 55 9 Damond turned nickel coaled copper 1145 16.V1 2 55 9 Damond turned nickel coaled copper 1146 16.V1 2 58 N13 This AdyCc coaling Lambda 1 06)/2 finch molybdenum substrate 1147 16.V1 2 56 0865 Damond turned nickel coaled copper 1148 16.V1 2 56 0865 Damond turned nickel coaled copper 1149 16.V1 2 56 0865 Damond turned nickel coaled copper 1140 16.V1 2 56 0865 Damond turned nickel coaled copper 1141 16.V1 2 66 0865 Damond turned nickel coaled copper 1142 16.V1 2 66 0865 Damond turned nickel coaled copper 1145 16.V1 1 64 C63 WO3 (UV basked)/Polyurethane/N substrate 1150 16.V1 16.A 65 WO3 (UV basked)/Polyurethane/N substrate 1151 16.V1 1 64 C63 WO3 (UV basked)/Polyurethane/N substrate 1151 16.V1 16.A 65 WO3 (UV basked)/Polyurethane/N substrate 1151 16.V1 16.A 65 WO3 (UV basked)/Polyurethane/N substrate 1151 16.V1 16.A 65 WO3 (UV basked)/Polyurethane/N substrate 1152 16.V1 16.A 65 WO3 (UV basked)/Polyurethane/N substrate 1152 16.V1 16.A 65	214	7 TEVE 2 42 013	MgF2 coaling lambda (1 06)/2 thickflused silica substrate	Crazed. contaminated (particle)
1120 16.01 2 46 N21 Polished molyddernum 1121 16.01 2 46 N12 Polished molyddernum 1121 16.01 2 46 N12 Polished molyddernum 1122 16.01 2 47 N11 Polished molyddernum 1123 16.01 2 47 N11 Polished molyddernum 1124 16.01 2 48 N12 Polished molyddernum 1125 16.01 2 48 N12 Polished molyddernum 1126 16.01 2 48 N12 Polished molyddernum 1127 16.01 2 48 N12 Polished molyddernum 1128 16.01 2 51 6665 Damond turned copper Bustace 1129 16.01 2 51 6665 Damond turned michel coaled copper A surface 1129 16.01 2 52 6684 Damond turned michel coaled copper A surface 1129 16.01 2 53 0	112	8 T6VI 2 43 023	MgF2 coating lambda (106)/2 the Wised silica substrate	Crazed, contaminated (particle)
1110 1641 2 45 1877	115	9 T6VI 2 44 N21	Poished maistifearum	Hazed
1122 16.V1 2 46 Nt.	113	0 1641 2 45 NTF		Hazed
1132 T6VI 2 47 PIT ThF4AgCc coahing tambda (1 06)r2 thick/ molybdenum substrate 1133 T6VI 2 48 MI2 ThF4AgCc coahing tambda (1 06)r2 thick/ molybdenum substrate 1144 T6VI 2 50 B654 Damond turned copper	113	1 TEVE 2 46 M4	Polished molypoder.um	Hazed
1131 16V1 2 48 W12	113	2 TEVI 2 47 MS	-	Unchanged
1114 16V1 2 50 869 Damond lurned copper A surface 1115 16V1 2 50 869 Damond lurned copper A surface 1116 16V1 2 51 666	1.13	3 T6VI 2 48 MIZ	_	Unchanged
1135 1691 Damond furned copper 8 surface 1136 1691 Damond furned copper 8 surface 1137 1691 2 5 864 Damond furned copper C surface 1138 1691 2 5 864 Damond furned copper C surface 1139 1691 2 5 864 Damond furned copper C surface 1140 1691 2 5 8 9 Damond furned nickle coaled copper R surface 1141 1691 2 5 6 006 Fused Scole Fused Scole 1142 1691 2 5 6 006 Fused Scole Fused Scole 1144 1691 2 5 8 199 Pokehad motybdenum E surface 1144 1691 2 5 8 199 Pokehad motybdenum E surface 1144 1691 2 6 8 199 Pokehad motybdenum E surface 1144 1691 2 6 8 199 Pokehad motybdenum E surface 1145 1691 2 6 8 199 Pokehad motybdenum E surface 1146 1691 2 6 8 199 Pokehad m	113	4 TEVI 2 49 NZ	_	Hazed (·)
1136 1641 2: 51 6665 Deamond furned copper B surface 1139 1641 2: 52 8684 Deamond furned copper C surface 1139 1641 2: 52 8684 Deamond furned mickel coaled copper. A surface 1139 1641 2: 53 9 Deamond furned mickel coaled copper. A surface 1141 1641 2: 55 9 Deamond furned mickel coaled copper. B surface 1142 1641 2: 55 9 Deamond furned mickel coaled copper. B surface 1142 1641 2: 55 9 Deamond furned mickel coaled copper. B surface 1144 1641 2: 58 149 Pokahed molybdenum 1144 1641 2: 59 113 The fixed C coaling lambda 10 6012 thicku molybdenum substrate 1145 1641 2: 59 113 Deamond furned copper 1146 1641 2: 60 8665 Deamond furned copper 1147 1641 1: 62 863 Deamond furned mickel coaled copper 1148 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1149 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1149 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV trasted)-IR dye/M substrate 1140 1641 1: 63 863 WO3 (UV t	1.7.4	5 16VE 2 50 8691	Damand lurned copper A sartace	Corroded
1138 16V1 2 53 8684 Diadhond turned copper. C surface 1138 16V1 2 53 1 Diamond turned nickel coaled copper. A surface 1140 76V1 2 54 7 Diamond turned nickel coaled copper. A surface 1141 76V1 2 55 9 Diamond turned nickel coaled copper. B surface 1141 76V1 2 55 011 MgF2 coaling. Ismbda (1 06)r2 thick/lused sites substrate 1142 76V1 2 55 011 MgF2 coaling. Ismbda (1 06)r2 thick/lused sites substrate 1144 76V1 2 56 005 Fused SiO2 1144 76V1 2 56 005 Trif-kilg/Cr coaling. Ismbda (1 06)r2 thick/lused substrate 1144 76V1 2 56 005 Trif-kilg/Cr coaling. Ismbda (1 06)r2 thick/lused substrate 1145 76V1 2 56 005 Trif-kilg/Cr coaling. Ismbda (1 06)r2 thick/lused substrate 1146 76V1 2 56 005 Diamond Turned mother copper. 1147 76V1 2 61 3 WO3 (UV treated)polyurelhane/M substrate 1147 76V1 1 64 C63 WO3 (UV treated)polyurelhane/M substrate 2000 24 SCU Cover S13GLO painted M box covering signal conditioning unit 2001 25 SCU Cover S13GLO painted M box covering signal conditioning unit 2002 25 SCU Cover S13GLO painted M box covering signal conditioning unit 2003 25 SCU Cover S13GLO painted M box covering signal conditioning uni	113	6 TEVE 2:51 8683	Champad furned capper 8 surface	Hazed
1138 T6VI 2 53 1 Disamond furned nickel coaked copper. A surface 1139 T6VI 2 54 7 Disamond furned nickel coaked copper. A surface 1140 T6VI 2 55 9 Disamond furned nickel coaked copper. B surface 1141 T6VI 2 55 011 MgF2 coaling. Lambda (1 06)/2 thicklused sibca substrate 1144 T6VI 2 56 105 Pokshed molybdenum 1144 T6VI 2 58 149 Pokshed molybdenum 1145 T6VI 2 58 149 Pokshed molybdenum 1146 T6VI 2 58 149 Pokshed molybdenum 1147 T6VI 2 58 149 Pokshed molybdenum 1148 T6VI 2 56 13 Trif 4/MyC coaling Lambda (1 06)/2 thickly substrate 1149 T6VI 2 61 3 WO3 (1V treated)-polyurelimane/A substrate 1149 T6VI 1 62 863 WO3 (1V treated)-polyurelimane/A substrate 2000 DA SCU Cover S13GL O painted A Box covering signal conditi	113	7 16VI 2 52 8684	Distribution in myd copper, C surface	Hazed
11139 T6V1 2 54.7 Dramond furned nickel coaled copper. A surface 1140 76V1 2 55.9 Dramond furned nickel coaled copper. B surface 1141 16V1 2 56.006 Fuzed Sto2 1142 16V1 2 57.011 MgF2 coaling. Lambda (1.06)/2 furchfused sikes substrate 1144 16V1 2 58.149 Polished molybdenum 1144 16V1 2 58.149 Polished molybdenum 1144 16V1 2 58.149 Dramond furned copper 1145 16V1 2 69.865 Dramond furned nickel coaled copper 1146 16V1 2 69.3 Dramond furned nickel coaled copper 1147 16V1 1 62.863 Dramond furned nickel coaled copper 1148 16V1 1 62.863 WOO (UV treated)-polyure/hane/N substrate 1147 16V1 1 63.863 WOO (UV treated)-polyure/hane/N substrate 1148 16V1 1 63.863 Si3GLO painted Al box covering signal conditioning unit 2000 Da SCU Cover Si3GLO painted Al box covering Experiment Power and Data System 2003 Da-Sunshavid Chemylate A276 painted Al sunshavid covering Experiment Power and Data System 2003 Da-Sunshavid Chemylate A276 painted Al sunshavid covering Experiment Power and Data System 2004 Da-Sunshavid Chemylate A276 painted Al sunshavid covering Experiment Power and Data System 2005 Da-Sunshavid Chemylate A276 painted Al sunshavid covering Experiment Power and Data System 2006 L31:20.1 Tellon FEPMAgitnor-refisedresive sheet		8 TEVI 2 53 I		Hazed
Dumond tuned nickel coxied cryper. B surface Fused Sid2 MgF2 coaling, lambda (1 06)/2 mcMused silica substrate Polished molybdenum Thif4/Ag/Cr coaling lambda (1 06)/2 thick/ molybdenum substrate Polished molybdenum Thif4/Ag/Cr coaling lambda (1 06)/2 thick/ molybdenum substrate Diamond turned nickel coaled copper WO3 (UV treated)-polymethane/Al substrate WO3 (UV treated)-polymethane/Al substrate WO3 (UV treated)-polymethane/Al substrate S13GLO painted Al box covering signal conditioning unit Chemglaze A276 painted Al sunstituted covering Experiment Power and Data System S13GLO painted Al box covering signal conditioning unit Chemglaze A276 painted Al sunstituted covering Experiment Power and Data System Felton FEP/Agitnor-reliadhesive sheet	-	9 TEVI 2 SA. 7	Examond turned nichel coaled capper, A surface	Hazed (·)
Fused SiG2 MgF2 coaling, lambda (1 06)/2 thick/fused silica substrate Pokshed molybdenum Thifulagic coaling, lambda (1 06)/2 thick/ molybdenum substrate Diamond furned copper Diamond furned copper Diamond furned oxide copper Diamond furned oxide copper Diamond furned oxide copper WO3 (UV beated)-IR dye/N substrate WO3 (UV beated)-IR dye/N substrate S13GLO paniled Albox covering signal conditioning unit Chemglaze A276 painled Al sunstrield covering Experiment Power and Data System S13GLO paniled Albox covering signal conditioning unit Chemglaze A276 painled Al sunstrield covering Experiment Power and Data System Eelton FEP/Aginor-nei/adhesive sheet	114	0 TEVE 2 55.9		Hazed
MgF2 coaling, lambda (1 06)/2 fluch/lused silves substrate Pokshed molybdenium Thif4/Ag/Cc coaling lambda (1 06)/2 fluch/ molybdenium substrate Diamond lurned copper Diamond lurned nickel coaled copper Diamond lurned nickel coaled copper Diamond lurned nickel coaled copper WO3 (UV bealed)-in dye/N substrate WO3 (UV bealed)-in dye/N substrate Si3GLO painted At box covering signal conditioning unit Chemglaze A276 painted At substreted covering Experiment Power and Data System Si3GLO painted At box covering signal conditioning unit Chemglaze A276 painted At substreted covering Experiment Power and Data System Etlon FEP/Ag/Incr-nei/adhesive sheet	7:3	1 TEVI 2 56 008	Fusind SiO2	Unchanged
Pokshed malybdenum Thifulgics coating lambda (1969/2 thicky molybdenum substrate Diamond lunsed copper Diamond lunsed copper Diamond lunsed nickel coated copper Diamond lunsed nickel coated copper WO3 (UV treated)polywethane/A substrate WO3 (UV treated)polywethane/A substrate WO3 (UV treated)polywethane/A substrate Si3GLO paniled At box covering signal conditioning unit Chemiglaze A276 painted At sunshield covering Experiment Power and Data System Si3GLO paniled At box covering signal conditioning unit Chemiglaze A276 painted At sunshield covering Experiment Power and Data System Enton FEPIngfinct-net/adhesive sheet	114	2 T6VI 2 57 011	MgF2 coaling, lambda (106)/2 mickfused silica subsitiale	Crazed
13 Thif4/Ag/Cr coating lambda (196)/2 thick/ molybdenum substrate 15 Diamond furned copper 16 Diamond furned mickel coated copper 17 WO3 (UV breated)-polywethane/A substrate 18 WO3 (UV breated)-polywethane/A substrate 19 St3GLO paniled At box covering signal conditioning unit 19 Chemylate A276 painted At substrated covering Experiment Power and Data System 19 Chemylate A276 painted At substrated covering Experiment Power and Data System 19 Tellon FEP/Agrinor-nei/adhesive sheet	114	3 T6V! 2 58 149	· Polished malfodenum	Contaminated (particle)
Diamond furned mother copper Diamond furned mother coated copper Diamond furned mother coated copper Diamond furned mother coated copper WO3 (EV treated) polyweithane/A substrate WO3 (EV treated) polyweithane/A substrate Si3GLO panited At box covering signal conditioning unit Chemglaze A276 painted At sunshield covering Experiment Power and Data System S13GLO painted At box covering signal conditioning unit Chemglaze A276 painted At sunshield covering Experiment Power and Data System Eelton FEP/Agrinor-nei/adhesive sheet	114	4 TEVI 2 59 MI3		Contaminated (particle)
Diamond turned nicket coaled copper WO3 (UV beated)+Dolywethane/M substrate WO3 (UV beated)+Sh dye/M substrate WO3 (UV beated)+Sh dye/M substrate S13GLO panied M box covering signal conditioning unit Chemglaze A276 painted AI sunstrield covering Experiment Power and Data System S13GLO panied AI box covering signal conditioning unit Chemglaze A276 painted AI sunstrield covering Experiment Power and Data System Tellon FEP/Aginor-nei/adhesive sheet	713	S T6VI 2 69 8555	Diamond furned copper	Unchanged
WO3 (UV beated)-iff dye/N substrate WO3 (UV beated)-iff dye/N substrate WO3 (UV beated)-iff dye/N substrate S13GLO painted At box covering signal conditioning unit Chemglaze A276 painted At substreted covering Experiment Power and Data System S13GLO painted At box covering signal conditioning unit Chemglaze A276 painted At substreted covering Experiment Power and Data System Tellon FEP/Aginor-reflamesive sheet	114	6 T6VI 2 61.3	Diamond turned nicket coated copper	Contaminated (particle)
WO3 (UV beated)+IR dye/N substrate WO3 (UV traited)polycethane/N substrate S13GLO panied At box covering signal conditioning unit Chemplaze A276 painted At sunshield covering Experiment Power and Data System S13GLO panied At box covering signal conditioning unit Chemplaze A276 painted At sunstitued covering Experiment Power and Data System Tellon FEP/Agincy-refragesive sheet	7:1	7 TEVE 1 62 A63	HO3 (UV traied)polytrellane/A substrate	Unchanged
S13GLO painted At box covering signal conditioning unit Chemplaze A216 painted At sunshield covering Experiment Power and Data System S13GLO painted At box covering signal conditioning unit Chemplaze A216 painted At sunstineid covering Experiment Power and Data System Tellon FEP/Agitnor-refraghesive sheet	711	8 T6VI 1 63 853		Unchanged
S13GLO painted At box covering signal conditioning unit Chemotate A276 painted At sunshield covering Experiment Power and Data System S13GLO painted At box covering signal conditioning unit Chemotate A276 painted At sunshield covering Experiment Power and Data System Telton FEP/Agrinor-net/adhesive sheet	114	9 T6VI 1 64 C63	803 (UV trasled)polycethane/A substrate	Unchanged
Chemplaze A276 painted Al sunchield covering Experiment Power and Data System S136LO painted Al box covering signal conditioning unit Chemplaze A276 painted Al sunchield covering Experiment Power and Data System Evided. cratered Evided. discolored.	200	0 D4 SCU Cover	\$100LO painted At box covering signal conditioning unit	Discolored, contaminated (stain), cratered
S13GLO panied At box covering signal conditioning unit Chemiglate A216 panied At sunstineid covering Experiment Power and Data System Tellon FEP/Aginor-nei/a@esive sheet Ended, discolored.	200	1 Dt. Sunshield	Chemplaze A276 painted At sunstitled covering Experiment Power and Data System	Discolored
Chemylare A276 painted Al sunshield covering Experiment Power and Data System Febragancine/sachesive sheet	200	2 De SCU Cover	S13GLO painled Al box covering signal conditioning unit	Discolored, crazed, cratered
tellon FEPragnormaliameane sheet	200	3 DB Sumshield	Chemitate A275 painted At sunshipld covering Experiment Power and Data System	Eroded, cratered
	200	4 21 20 1	Tellon FEPIAginor-reliedhesive sheel	Eroded, discolored, cratered

APPENDIX B

M0003 DATABASE CONTENTS

(Sorted by Application)

980	DB# Application	Description	Sample 10
225	Adhesive bond, hardware, solar power	Thin solar cell, standard Si	L3IV-8-63-3
224	_	Thin film solar cell, CulnSe2/CdS	L3IV-8-62-183 3
1061		Strip, Soldal R coating. (A. DC93-500/ B, R 2501)	T6111-9-220-S0-R
1053		Strip. Soldal K coating. (A. DC93-500/ B. R-2501)	T6111-9-217-S0-K
000	Adhesive bond	Strip. Soldal D coating (A. Electrodag 502/ B. Electrodag 501)	T6111-9-168 S0 D
946	Adhesive hand	Strip, Soldal O coating (A. DC93-500/ B, R-2501)	T6111-9-120-S0-O
7 8 8	Adhesive bond	Strip. Soldal C coating. (A. Electrodag 502/ B. Electrodag 501)	T6111 9-61 S0 C
	Adhesive bond	Soldal J coaling (A.	T6111-9 59-S0-J
403	Adhesive bond.	Strip, Soldal H coating (A. DC93:500' B. R-2500)	L6111 9 238 S0 H
472	Adhesive bond	Sinp Soldal B coaling (A Electrodag 502 · B. Electrodag 501)	L6111 9 217 S0 B
430	Adhesive bond.		L6III-9-175 SO-P
305	Adhesive bond.	Sinp, Soidal A coating. (A. Electrodag 502 ' B. Electrodag 501)	L6111-9-61 SO-A
289	Achesive bond.	Sinp. Soldal G coating (A. DC93-500/ B. R-2500)	L6111-9-45 S0 G
272	Achesive bond	Strip, Soldal O coating: (A, DC93-500/ B, R-2501)	L6III-9-29-S0-0
0051	Adhesive bond	7 µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond. General Electric	T6V1 5 15 A6
\$15	Achesive bond.	7 µm quartz fabric chemical and heat cleaned (+450°C), adhesive bond, General Electric	L6VI-5 16-A6
32		7 µm quartz fabric chemical and hear cleaned (+450 °C), adhesive bond/Al. General Electric	L3II.5.24 A6
600	_	7 µm quantz labric chemical and heal cleaned (+450°C), adhesive bond/Al, General Electric	T311-5-24-A6
688	_	Solid plastic-metal laminate	T3III 9.36-AM4a
687	_	Plastic-metal mesh laminate	T3111-9 35 AM3d
686		Gold-plated knitted Dacron mesh	T3111-9-34-AM2b
585	Antennae	Gold-plated woven Dacron mesh	T3ff1-9-33-AM1c
584	Antennae	Solid plastic-metal laminate	T3111 9 32 AM4c
683	Antennae	Plastic-metal mesh laminate	T3111-9-31-AM3c
682	Antennae	Gold-plated knitted Dacron mesh	T3111-9-30-AM2c
681	Antennae	Gold plated woven Decron mesh	T3III:9:29-AM1B
123	Artennae	Solid plastic metal laminate	L3III-9-36-AM4D
122	Antennae	Plastic metal mesh laminate	L3111-9-35-AM3B
121	Antennae	Gold-planed kmitted Dacron mesh	L3III-9 34-AM2A
120	Antennae	Gold-plated woven Dacron mesh	L3III.9.33.AM1A
119	Antennae	Solid plastic-metal faminate	L3!!! 9 32.AM4E
118	Antemose	Plastic metal mesh laminate	£311.9 31.AM3E
1117	Antennae	Gold-plated knitted Dacron mesh	L3111-9-30-AM2E
116	Antennae	Gold-plated woven Dacron mesh	L3III.9-29-AM1E
650	Contamination monitor	ZnSe crystal	T311-18-74-X
82	Contamination monitor	ZnSe crystal	L3II-18-74-I
622	Contamination monitor, electronics	Coaled quariz crystal microbalance (OCM) - passive, 150A ZnS/9000A AI+AI2O3	T3H-14-46-04
621	Contamination monitor, electronics	Coated quartz crystal microbalance (OCM) - active, 150A In2O3/9060A AI+AI2O3	T311-14-45-03
54	Contamination monitor, efectionics	Coated quartz crystal microbalance (OCM) - passive, 150A ZnS/9000A AI+AI2O3	L3II-14-46-6
53	Contamnation montor, electronics	Coated quartz crystal microbalance (OCM) - active, 150A In2O3/9000A AI+AI2O3	L3II-14-45-12
1111	Contamination monitor, optics	Alummized fused silica mirror	T6VI-11-26-S04
1169		ZnSe infrared plate	T6VI-11-24-05
711	Contamination mainter, optics	Alumnized fused surca mirror	T319 11-59-S03

	4	Describition	Sample 1D
	U S & Application	.	1311-11-49-506
625	Contamination monitor, optics	Aluminized fused salica inuror	T311.11.48.BG06
624	Contamination monitor, opics	Low scatter black glass	1511-11-15-3
216	Contamenation montos optics	ZnSe mirared plate	2.61.11.100
808	Contamination monitor optics	Gold coaled nickel mirror	100000000000000000000000000000000000000
508		Los scaller nichel mirror	1607:11:9:102
202		Aluminized lused silica mirror	306.9.11.5083
() (_	ZoSe mhared plate	[38] 11:60:1
		Auminized lused sinca miror	13111 11-59-501
971	Contracting months	Aummized lused sista mirror	1311-11-49-507
5.5	Contamination morning	Francis 2000 correct Stemman Differ	L6VI 11-22-2
125	Contamenation momior thermal control optics	Comment of the second s	T6V1 1 64 C63
1149	Electro optic signature	WOLL TO RESIDENCE TO ALLESS SHOWING	T6VI 1 63 B63
1148	Electro apic signature	WOS (UV realed) ett gyern suusuale	T6VI-1-62-A63
1147	Flectio oplic sgnature	WO3 (UV freated)/polyuretnane/Al substrate	T6VI-1-37-A22
1122	Electro aptic signature		T6VL:1:36 C22
11.71	Electro optic signature	WO3 IUV treated/toolyurethane/Al substrate	16VI:1:35:822
1120	FIRETO ODING SIGNATURE	WO3 (UV irealed) IR dye/Al substrate	100 CO. 1.00
6111	Frectio optic	WO3 (UV reared):polyurethane/Al substrate	16VI-1-34-A11
	Flectio-oouc	WO3 (UV treated) polyurethane/Al substrate	1601 1:33:011
		WO3 (UV neated) iR dye/Al substrate	1601.1.32.811
0	Fierro onte	WO3 (UV treated):polyurethane/Al substrate	T311-1-55-C7
י פ	o company	WC3 (LV treated)-IR dye/Al substrate	1311-1 54 87
630	בובכתם מסתיכ		T3II-1-53-A7
629	Frecho optic		£6VI:1 69-C52
295	FIRETIO ODISC	www. it is rested find by the hand A substrate	L6VI-1-66-A52
595	Electro optic	HICKS TO A COMMENT OF THE CHARLETTE	L6VI-1-65-852
264	Electro aptic		L6VI-1-64-A41
563	_	VOS (VA PORTE INTERIOR DE LA P	L6VI-1 63-541
295	Electro optic	2	L6VI-1-62-C41
195	r Efectio optic signature	WO3 (UV treated/polytreinane/N) substrate	1 6VI-1 4-A33
503	3 Electro oplic signature	WO3 (UV treated)/polyurethanerAl substrate	1 6VI. 1.3.B.3
205	Electro optic signature	WC3 (IV mested) IR dye/At substrate	164112-033
105	Electro optic signature	WOS (UV Ireated)/polyurethane/Al substrate	100.3.1.100
1105 13	3 Electro aplics, aplics	Thermal switch (non linear) Non Linear material/Ge	TOUR 10 44 D 2530D
1 969	* Electionics	GaAs FETs, butk GaAs	Total 44 0.3630
60 969	Electronics	CaAs FETs, but GaAs	13III:19:44:0:3839C
696 08		GaAs FETs, but GaAs	13111-19-44-0-16
695 07	_	GaAs FETs, buts GaAs	7311 19:44:D:15
695 05		Caás FETs, bulk Gaðs	13111-19-44-U-14
50805	is Electionics	GaAs FETs, but GaAs	3 -19-44-U-13
646 84	_	GaAs FETs, but GaAs	T3III-19-44-D-12
20 203		CaAs FETs, but Gats	T3III-19-44-D-11
00000		GaAs FETs, but GaAs	T3III-19-44-D-10
		CaAs FETs, but CaAs	T3III-19-44-D-09
, , , , ,		MOS Dences	T3111-19-43-C-09

		Description	Sample ID
	UBILDELLOS		T3HI-19-43-C-08
695 08	Electronics	MOS dences	T3111-19-43-C-07
695 07	Electronics	MDS devices	T3111 19-43-C-06
90 569	Electionics	MOS Genrie	T31II-19-43-C-05
		MOS devices	T3111-19-43-C-04
697.04	Fiechones	MACO CANCES	13111 19 43 C 03
695 03	Firetranics	MOS devices	T3111 19 43 C 02
695 02	FIRCHOUSE	MOS Georges	T3111 19-43 C-01
10 569	Firetions	MOS dences	L3III 19-44-8-3639B
1321	\$2740424) }	GAAS FEIS DUN GANS	13111 19 44 B 3639A
131 09	£ inchowes	GaAs FETS buck CaAs	13111 19 44 8 07
131 07	F Fechanics	GaAs FE Is, Duft CaAs	1.3111 19 44 8 06
431 06	Floringing	CAAS FE 15, Dun CAAS	L3111 19 44 B-05
131 05	[tection ct	GaAs FEIs, but GaAs	L3111 19-44 B-02
131 07	ן ופכניסטיכצ	CaAs FETS, butk GaAs	L3111 19 44.B 01
131 01	f Poctson.cs	Gans FETs, but Gans	L3111 19:43.A 10
1361	Frechones	MOS Deveces	1311 19 43 A 09
133 69	Frechomes	MOS Dever	13111 19 43 A 08
130 05		MOS Device	1 3111-19 43 A 07
130 07	FIRCLOSMCS	MOS Devices	1 3111-19 43 A 06
130 06		,MOS Devices	13H 19 43 A 05
130 05		MOS Device	1.3111.19.43.A.04
130 04	_	MDS Device	L3111-19-43 A-03
130 03		NOS Devce	13111 19 43 A 02
20 021		MOS Device	1 2 11 10 43 B 101
	_	MADS Device	LSIII: 19 43: A:0
		GARS FETS, Duk GARS	L3III: 19:44:B:08
137 08	_	Care EFTs but GaAs	L3111-19-44 B 04
131 04		CONFICTION OF COMPANY	L3III 19:44 B 03
13: 03	Fiectionics	Control of the Contro	T3111 19 44 D:00
969	Fledinancs	FUNCTION SECURITY STATES THE SECURITY S	T3111-19-43-C-00
695	Electronics.	and the standard and a lifting of an analysis and all with II and Ag plated standard hardware	T31.9.8 CW4
576	Electionics, hardware	derice Judge pulg a Judge pulge and the pulge pu	T31-9 7-CW3
515		CERTOR JUGA PUDG & JUGA ACCEPTANCE AND AND THE TOTAL AND	T31 9 6 CW2
574		thereat already purg a strate receipting manner of Al with Tr and An planed stainless sieel hardware	T31-9-5-CW1
573	Electronics, hardware	Benda Jisbut purg a Jistura reference mounted of	L3III-19-44-B-00
131	r Electionics hardware	Anodized aluminim mouning place with Cass 1 113, our Cass	L3HI-19-43-A-00
130	5 Flections, hardene	Anodited Juminum mounting plate with MOS devices	1.31.9.8.CW4
•	Electionics, hardware	Sendur 19668 ping & 19028 receptable mounted on A will 1 and Ny passed stemmers and	L31-9-7 CW3
•	7 Electionics, hardware	Bends 1106R plug & 1102R receptacte mounted on N Will I and Ny John a similare close hardware	131.9.6.CW2
•	6 Electronics, hardware	Bendis 1106R plug & JTC2R receptacle mounted on At with 11 and Agriphated stational read-many	131.9.5.CW1
	S Electronics, hardware	Bendix J106R plug & J102R receptacte mounted on Al with 11 and Ag-biated staintess steet transmand	Tell. 9. 213. W2
1054	Electronics, hardware, insufation	Coated wire, Mil.W 22759/32	TEIII.0.116.W!
942	Electionics, hardware, insulation	Coated wire, Mil W 22759/32	121/ 6 63 6
180	789 Hardave, adhesive bond solar power	oner This tim solar cell, standard Si	

980	Apolication	De : cristion	Sample 10
788	-	The Solar Control Cont	T31V-8-62-183-4
*6			T6VI.13.20.07A
20 00 1	-	Company of the state of the sta	Tevil 12 20 026
1105 02	10.50 CE 10.	the corner was estable; we consume a value of the consumer of the corner was estable to the corner was estable to the corner we consumer to the corner of th	100.02.02.02
1145	SOUTH SEET	Namondatumed model Coaled Copper	1041:2 61:3
1145	Later opics opics	Damond Surred Copper	T6VI.2 60 8685
1165	Laser opics opics	InfeAgics coang tambda (1 t.) 12 thicks malybdenum substrate	T6VI-2-59-N13
1143	sando sando santo	Printhed molytidenum	T6VI-2-58 N9
1142	Laser opics opics	Bh."? coating, lambda (1 06)/2 thetchused silica substrate	T6VI-2-57 011
1241	Easter appears appears	Fused 5:02	T6VI-2-56 008
1140	Laxer corcs coocs	Damond suned mickel coated copper B surface	T6VI 2.55 9
1130	Laser appearance opher	Damond turned racket coated copper A surface	T6VI-2-54 7
1138	fase opics opics	(Namond turned rackel coated copper A surface	T6VI-2 53 1
1137	Laser opines opines	Damond-turned copper C surface	T6VI.2-52-8684
1136	Laser opics opics	Damand turned capper, B surface	T6VI-2-51-8689
1135	Large optics optics	Damond turned ropper. A surface	T6VI-2-50-8691
1134	Large opies opies	infarAgiCr coasing lambda (1 OSi/2 thick/ molybdenum substrate	T6VI.2 49 N2
1133	lase oppor oppos	Inf-MgrCr coating lambda (1 06)/2 thick/ molybdenum substrate	T6VI 2 48 N12
2011	taser opics opics	InferAgit: coaung lambda (1 06y2 thick: molybdenum substrate	T6VI-2-47-N1
1131	1386	Poisthed molybdenum	T6VI-2-46 NA
1 130		Polished molybdenum	T6VI-2 45-N17
1129	Laser oppies oppies	Polished molybdenum	T6VI-2-44-N21
1128	Laser opines opines	MgF2 coaring, lambda (105)/2 thick/lused silica substrate	T6VI-2-43-023
1127	Laser oplics.	MgF2 costing, lambda (1 06)/2 thick/lused silica substrate	T6V! 2-42-013
1126	Laser opnes, opnes	sigf2 costing. lambda (1 06)/2 thickfused silica substrate	T6VI-2-41-009
1125	Laser opies outes	Fused S/O2	T6V1-2-40-029
1126	Laser opics opics	Fused S/O?	T6VI-2-39-021
1123	later opies opies	Fused SiO2	T6VI-2-38-005
11 9011	Laser opics opics	Wide band anti reflection coating. AI2O3/ZiO2/MgF2	T6VI-6-21-II 11
1 105 1	Laser opines opines	Wide band relitector coating 2:02/5:02 on sinca	T6V1-6-21 II.10
1106 09	Laser opines opines	Wide band reflector coating TrO2/SiO2 on sitica	T6VI-6-21-II-9
1106 08	Laser opics, opics	Solar telescope high reflectance coating AwSpinel on Ni/Al	T6VI-6-21 II 8
1106 07	Laser opics, opucs	Solar telescope high reflectance coating. Electroplated Au on Ni/Al	T6VI-6-21-II-7
1106.06	Laser opics, opics	Refescopergraphs high reflectance coating SiO2/Ag on Cervit	T6VI-6-21-II 6
1106 05	Laser opics, opics	Tetescope/gimbal high reflectance coating: SiO2/Al2O3/Ag on silica	T6VI-6-21-II-5
1105 04	Laser opics, opics	Telescope/gmbal high reflectance coating: ZnS/ThF4/Ag on silica	T6VI-6-21-II-4
1106 03	Laser optics, optics	Lens anti-reflection coating. YstaloutAgF2 on Silica	T6VI-6-21-II-3
1106 02	Laser opies, opies	Laser minor high reflectance coang: 1102/5102 on sinca	T6VI-6-21-II-2
1106 01	Laser opines, opines	Laser rod anti-reflection coating: 2r02/SiO2 on YAG	T6VI-6-21-II-1
260	Laser ophics, ophics	Damond-turned nichel coated copper, 8 surface	L6VI-2-61-6
858	Laser opins, opins	Damond-turned rechet costed copper, A surface	L6VI-2-60-4
558	Laser optics, optics	Demond-turned nickel coated copper, A surface	L6VI-2-59-2
557	Laser opines, opines	Damond-turned copper, A surface	L6VI-2-58-8686
955	556 Laser oplics oplics	Damond-turned copper, B surface	L6VI-2-57-8683

			Sample 1D
-	Off Application		L6VI-2-56-8692
	555 Laser opics, opics	Damond furned copper, A surface	1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C
	CAL ILESE ODICS. ODBCS	Inf-4/Ag/Cr coating lambda (1 06)/2 thick/ molybdenum substrate	21 N. CC-2-1A97
	Tacas applies	InfarAgrCr coating tambda (1 06)/2 thicky molybderium substrate	L6VI-2-54 No
	200 -	Inf.4.AgrC. coating lambda (1 06)/2 thick/ molybdenum substrate	L6VI-2-53-N3
		Poksbed mohbdenum	16VI-2-52 N8
	SURGO .esse 1	Carlot de Artista de Carlot de Carlo	L6VI 2 51 N23
	tare opper		L6VI-2-50 N19
	Seg tase opice opice	Objection may be seen to the second of the s	L6VI:2 49 024
	5.16 Lasse opince opince	Mg) 2 coaling, lambda 11 topy, tarchiosed since abusines	16VI.2.48 022
	Sat Lase, opics opics	MgF2 coating, tambda (106)/2 thickdused suica substrate	16VI 2-47 014
	Sec tare open open	MgF7 coaing, sambda 11 05y2 michilused silica substrate	7-0 /7-2 1001
	SASO PERSON COURS	Fused S402	L6VI:2 46 019
		Fused SAD2	L6VI 2:45 UI8
	t aser collect	fused SO2	L6VI-2-44 002
		Diamond-lumed copper	L3H-2-56 8688
	Cando Lase 1	Interact control lambda (1 06)/2 thick/ molybdenum substrate	L3H-2 55-N24B
	1356 00555	Defermed systems	L3II.2 54:N18A
	67 Laser opines opines	Project manufactured of Acts Printing elics cities cities	L3H 2-53-010
	61 Laser opies opies	MAY (COSTAG. Idrabled 1) Units uncontact and account	1311.2.52 006
	60 Later police ables	Fused SO2	1311.2.57.10
7	6.5 Laser opics, opings	Chamond luned nickel coaled copper	01.76.2.116.7
	1116 20003	Marror, Ag . (AI2O3/51)*2 coaling on polished molybdenum substrate	#:: S: /: NOI
		Muror, Ap. (1hF4:ZnSy*3 coaing on polished molybdenum substrate	16VI-7 30-36
•	_	Starma howcon sensor Dielectinc Stack/ZnSe/Dielectric stack	T6VI-13-20-20A
		Searms borson sensor Diefecting stack Ge	T6VI-13-20-19A
<u>.</u>		Define transfer scare filter 205/5/F2/110/5/02	T6VI-13 20-18A
1	1.105 16 Opecs		T6VI-13-20-17A
): \$	1105 17 Opnes		T6VI:13:20:16A
7. 1	1105 16 Opines	Section of the sectio	T6VI. 13.20.14A
); ;	1105 14 Opper	Absorptive stack Diefecting stack/SiO2/AIZO3Nii Auf Be	Tevi 12 20:124
111	1105 12 000/cs	Wide band reliective stack	C2-10 2 C1-10 E
	640 Ophes	ZnS coating on SrO2 substrate	1311.7.64:11
	6.19 Optics	As2Se3 coating on SiO2 substrate	1311.7.63.12
		Pbf2 coaing on SrO2 substrate	1311.7 62.8
	23.7 Opucs	Thf coating on SO2 substrate	1311.7.61.7
	2.15 Oppos	Si coating on SiO2 substrate	1311-7-60-4
		-At203 coaking on Sr02 substrate	1311.7 59.2
		Marrox, AI2O3 conting, tambéa/2 thick @ 2.7 µm, Caf 2 substrate	T3II. 7.56.23
		Merco. At . (AJ203/ZhS)*9 mutit-ityer coating on polished molybdenum substrate	L6VI 7.68-15
		Mercer, SufSiOn coating on polished molybdenum substrate	L6VI.7.67.239
		Marror, Ag . (At203/5))-3 multi-layer coaling on polished molybdenum substrate	L6VI-7-1-46-11
		ZoS courses on \$402 substrate	L3II-7-65-10
	2000	Son casing on SO2 substrate	L3II-7-64-9
		The manner on SQ2 substrate	1311-7-63-6
	60000	Mar coating on SAOs substrate	1311-7-62-5
		S- coaking on SrO2 substrate	1311-7-61-3

Ö	D & S A P P I I C B I I S B B B B B B B B B B B B B B B B	Oescription	Sample 10
1 30	68 Opiecs	AIZO3 coating on SiO2 substrate	1311-7-60-1
2141	Opics, confamination monitor	the scatter auchel march	T6VI-11-29-N04
1113	Copies, contamination monitor	Colv coated copper mirror	T6VI-11-28-C81-8
5113	Opics contamination monitor	low scatter black glass	T6VI-11-27-8G04
112	Optics contamination maintor	7nSe minued plane	13III 11.60.04
929	6 Opices consumitation monitor	Low scatter nickel mutor	T311-11 50-N03
205	Opics contamination montor	for scatter black glass	L6VI:11:5-8G02
58	Opices, contamination mandor	for scatter nickel margi	L3II-11-50-N01
35	6 Opics contamination monitor	Low scatter black glass	L3II-11-48-BG01
691	Opines contamination mandor thermal control	Coming 1940 second surface atominum mirror	L3III 11 62 X
1105 15	S Opies electro aptics	Non lanear material VO2:Baf2, Honeywell	T6VI 13 20 15A
24.2	Opics sauciales	Wasor GY702812024 Cad 16 ply)	L6111 10 6 A18 7
241	Oppes, structures	Mande, graphtiesgiass Ceiton 6000/borosdicate glass	L6111-10-5-GL2-1
1110	Opics thermal control contamination monitor	Corneg 1940 second surface aluminum mirror	T6VI-11-25-5
714	Copies esemus control contaminana manitor	Conneg 7940 second surface aluminum mirror	T3111-11-62 3
513	Radar camoullage	Responsitional condons	131-1-4-8
175	Madar carroungs	Capacitive grid	T31-1-3-A
870	Rydar cambullage	Cucus analog shees	131-1 2 0
695 72	Radar camouflage	Resorant reflector	T31-1-1-C
4	Radar camounage	Resorant unidow	131 1.4 8
17	1 Radar camouflage	Capaciture grid	L31-1-3-A
••	Radar camoufage	Cacut snakog sheet	L3I-1-2-D
-	Radar camoufage	Resonant reflector	L31-1-1-C
# 108	Radiation desimetry	Inermolumoescent dosmeter. Lif	T6VI-12-23-6
195	Radiation desimetry	Thermolymnescent dosmeter, Lif	T31V-17-70 T
213	Radiation dosimetry	Intermolationescent dosimeter, Lif	T3III-12-61 3
623	Madiation dosmetry	The molemnescent dosmeter. Lif	T311-12-47-4
925	Radiation dostmetry	Ingrinolummescent dosimeter, Lif	L6VI-12-27-3
232	Radiation dosmetry	Inermolenmescent dosimeter, Life	L3IV-17-70-L
148	Radabon desembly	Intermolyanmescent dosimeter, Lif	L3III-12-61-2
55	Radiation dosmetry	Thermolumnescent dosumeter, Lif	L3II-12-47-1
1011	Scur poster	Convertional sticon cells. 5 cell sting	T6VI-4-22-X2
249	Solar power	Conventional sticon cells, 5 cell sting	T31V-4-23-X4
748	Solar poses	High performance skicon cells, 5 cell string	T3IV-4-22-D
7.6.7	Solar power	Vertical punction silicon cells, 5 cell string	T31V-4-21 VJ2
746	Solar power	HESP II GAAs cetts, 5 cell string	T31V-4-20-GA2
745	Solar power	HESP II skicon cells, 5 cell string	T3IV-4-19-C
\$20	Solar power	Conventignal skoon cells, 5 cell string	L6VI-4-21-X1
185	S Solar pomer	Conventional stitum cells, 5 cell string	L3IV-4-23-X3
184		High performance stircon cells, 5 cell string	L3IV-4-22-B
183		Vertical parction silicon cells, 5 cell string	L31V-4-21-VJ1
182	2 Solar power	HESP II Ga As ceits. 5 ceit string	L3IV-4-20-GA1
101	I Solar power	HESP II sikeon celis, 5 cell string	L3IV-4 19-A

•	· ·		
	DBSApplication	Gescripiton	Sample ID
£3.0	Solar power opies	Cera. Deinn retainer, OCLI	T3IV-4-86-63
* 5 🖷	Solar power opines	7940 fused seleca, Delinn retainer, OCL1	T3IV-4-85-59
0.9	Solar power, opics	1940 fused suica. Delim relainer. OCI 1	T3IV-4-84-55
\$0 9	Solar power opics	1010 lused sáca. Delson retainer, OCL!	T3IV-4-83-51
404	Sofar power oppics	Mark IV coating on 7940 fused sitica. Defini retainer OCL1	T3IV-4-81-43
808	Solar power oppics	Erosson coaling on 7940 fused stirca. Delinin retainer OCL!	T31V-4-80-39
502	Sour power against	Erosson coaimy on 1940 tysed states. Delini relainer OCLI	T3IV 4 79 35
103	Solar power colics	Mark III E coating on 7940 fused sifica. Defini relainer OCLI	T3IV-4-77-27
203	Solds pourse opics	Max's III D coating on 7940 fused silica. Delina retainer. OCL?	T3IV-4 76 23
108	Solar power opies	HFA coating 3 ton 7940 fused sitica, Defini relainer, OCLI	T31V-4 75 19
600	South power aprice	Reflective 350nm coating on 7940 fused silica. Defini retainer, OCLI	13IV 4-74-15
199	Softe power opport	Reliective 350nm coaling on Cena, Definicetainer, OCL1	T3IV-4-73 11
198	Solar power appect	Reflective 350nm coating on 7940 fused silica. Deliin relainer, OCLI	T31V-4-72-7
191	_	Standard 350nm coating on 7940 fused stilica, Defini retainer, OCL!	T31V-4-71 3
747	Solar power gones	Cera. Define retainer, OCL1	T3IV:4-16-62
141	Solar power oping.	1940 lused solica Debun retainer, OCH	13IV:4 15 58
740	Solar power aposts	1940 fused sluca Delum retainer, OCL1	T3IV-4-14 54
539	Solar power opers	7070 lused suca Delva retainer, OCL!	T3IV 4 13 50
ŝ	Solar power concr.	Mark 14 controg 7940 fused suica Delina retainer OCI I	131V 4 11 42
736	Solar gower applica	Eroson coasnay7940 fused stica. Delin retainer OCII	T3IV-4 10 38
735	Solar power opiecs	Erostan coaung/7940 fused silica. Defini relainer. OCLI	T3IV-4-9 34
733	Solar power colicts	Mask In E coating/1940 fused stitca, Defini retainer, OCL1	T3IV-4-7-26
132	Solar gomer opiect	Mark III D coapsg/7940 fused silica, Defun retainer, OCL1	T3IV-4-6-22
131	Solar power, opiecs	HEA 31 coating/1940 fused stirce, Delnn retainer OCL!	T31V.4 5 18
730		Reflective 350 nm coating/7940 fused silica, Deliin retainer, OCLI	T3IV-4 4-14
129	Solar power oplics	Reflective 350 rdn coating/CERIA, Delin retainer, OCt !	T3IV-4-3-10
178	Solar power opics	Reflective 350 rm coaung/1940 lused silica. Delinn relainer, OCL!	T31V-4-2-6
121		Standard 350 nm coasing/7940 fused slica, Delin retainer, OCL!	T3IV-4-1-2
633	Solar power opics	Solar cell costing	T311-4-57-3
178	_	Cana, Defini retainer, OCLI	L31V-4-16-61
244	Sofar power optics	1940 kised skra. Delm relainer, OCLI	L3JV-4-15 57
176	_	1940 fused solica, Delim retainer, OCL!	L31V-4-14 52
175		7070 fused stica, Defrin retainer, OCL!	L3IV-4-13-49
273	Solar power, optics	Mark for coastry/1940 fused sinca, Delrin retainer, OCL!	L3IV-4-11-41
172	Solde power, opies	Erosion coabng/7940 fused stirca, Defrith retainer, OCI I	L3IV-4-10-37
171	_	Erosion coauny/1940 fused silica, Delini relainer. OCLI	L3IV 4.9.33
691	Solde power, opics	Mark III E coanng/1940 fused stitca, Defrin retainer, OCL!	L31V-4-7-25
168	_	Mark III D coating/1940 fused silica, Defr.n retainer, OCL!	L31V-4-6-24
167	-	HEA 3.1 coating/1940 fused sitica, Defini retainer, OCLI	L31V-4-5-17
991	_	Reflective 350 cm coating/7940 fused sitica, Defin retainer, OCLI	L31V-4-4-13
165		Reflective 350 nm coating/CERIA, Delini retainer, OCLI	L3IV-4-3-9
164	Solat power.	Reflective 350 nm coating/7940 fused silica, Delin retainer, OCL!	L3IV-4-2-5
163	Sofar power opics	Standard 350 nm coanngi7940 lused stitica. Delrin retainer, OCLI	£31V.4.1.1

0 8 6	Application		`escription	Sample 1D
;	Called American	*	Solve cell colored	L3II-4-59-SC2
6		1 F	Soler cell coatons	L3II-4-58-SC1
9 6	Sole pones.	c contamination monitos	Contammation coating on 7940 lused silica. Delini retainer, OCLI	T3IV-4-82-47
900	100		Contamination coating on 7940 fused suita, Defrin retainer, OCI1	T3IV-4-78-31
	Soft 100		Contamination coating/1940 fused silica, Delini retainer, OCL1	T3IV-4-12-46
	Soin 1000		Contamination coating/7940 fused silica. Defini retainer, OCL1	T3IV-4-8-30
	Solar solar	COCCAMINATION	Companion coating/1940 lused silica. Delini relainer. OCL!	L3IV-4-12-45
	Solar posser	ACUTA TABLES	Contempation coating/1940 fused silica. Defini retainer, OCL1	L3IV 4.8.29
	Special		Strap. S.C. laber S.C. S2/As	T6111-10-244-AL32-5
4 6 6	_		Sing. S.C. liber S.C. S7/Al	T6111-10-240 AL32-3
			Strip, graphiest ARC 160	T6III: 10-239-P12-10
200			Sup. guaphiret ARC 160	TGIII-10-238-PI2 9
			Strip, graphited ARC 180	T6111 10-237-P12-8
			Strip. (306/P1760, (0/90)	T6111-10-236-PS1-12
, ,			Sind 1368/9378A (0/45/90/135)52	T6111-10-235-P15-12
200			Sinp [300/V378A (0:45/90/135)S2	T6111-10-234-P15-11
* 7 0 1			O	T6111 10-233-P15-10
1,703			Sinp P755/CE 339. (0/45/98/135)54	16111 10-232-EP21 8
1070			Str.p P755/CE 339 (0:45/90:135)S4	T6111 10-231 EP21 7
10.01			Sing. \$380:polyether sulfonetwith lealing At coaling	T6111-10-230-PS12-2
920			Suip. P100/201/2024 AI (+201/201)S	T6111-10-228-AL33-7
404				T6111-10-227-AL33 5
100			Sup. P100:429:C:4261A (:10":19")S	T6111-10-226-MG10-8
1066			Sup. P108/A291C/A261A (+101/101)S	T61H-10-225-MG10-3
1064			Surp. GY70rCE 339 (0:45/90/135)52	T6111-10-224-EP22-10
440				TGIII 10-223-EP22-6
				T6III-10-222-EP2-6
2001	_			T6111-10-219-AL31-4
				T6111 10-216-MG9-T5
2503	Shindings.			T6111-10-215-MG9-T7
9601				T6111-10-214-MG6-4
				T6111-10-209-AL30-3
	_			T6111-10-208-PS1-7
	-		•	T6111-10-207-P11-12
1642	_			T6111-10-206 Pt1-11
1046				T6111 10-205-EP7-4
1065	_		Sinp. GY70/X504B (0/90/90/0)	T6111-10-204-EP6-4
1044	_		_	T6III-10-203-EP5-4
1043	_		Sing. E-glass 120 Fabric/X9048, (0)	T6111-10-202-EP10-4
1042			Sing. 1300/2 md-3M 113 wiscoelatic tape/5208	T6111-10-201-EP20-1
1041	_		Sup. 1300/2 md-3M 113 viscoelabe tape/5208	T6111-10-200-EP19-1
1040	_		Sing. 1300/2 md-3M 113 viscoelatic tape/5208	T6III-10-199-EP18-1
1039			Surp. GY70:934 (0:45:90:135)52	T6111-10-198-EP13-8

	Description	Sample ID
	(0) Pala BIECAST CONTRACTO	T6111-10-197-MG5-10
1038 Structures		[6]II-10-196-MG5-21
1032 Shuciares		TEHE 10. 195. MG5.4
-	Strp. VS5054/E23A/A/21B clad (0)	Telli 40 104 ED19.7
_	Sinp. GV70/934 (0/45/90/135)52	61 00 4 00 0 0 1101
_	Spup. P100/AZ91C/AZ61A (0)	1618: 101: 101: 100: 100: 100: 100: 100: 1
_	Sir. P1683A291C.AZ61A (0)	T6111-10-192-MG9-L4
-		T6III-10-191 MG3
1032 Structures		T6III-10-190-MG3
1031 Sructures	VS0054/E233AA2318.	16III:10:189 MG3
1030 Shuctures	-	T6111.10.188 FP22.4
_	Srip GY70:CE 339 (0:45/90:135)52	TEIN 10.187 A115.14
_	Surp. VSB32r6661 T6r6061 At ctad. (90)	*1.51.34 V81.01.01101
-	Sinp VSB32/6661-T6/66651 At clad (90)	161II-10-186-AL15-5
		T618-10 185-AL14-17
_	VCGATHERE TENEDES As clad	T6111-10-184-AL14-3
tors Studies	Pela IA 190901 100001	T6111 10 183-AL14 18
1094 Spuciares	Vocaciones in the second	T6111-10 182-PI1-10
1023 Sinuciues	_	Tell1.10.181.FP4.13
1027 Structures	Strp AS:3501 6 (0)	TELL 19 199 CD4.12
_	Sup. AS:3501-6 (0)	21.54 08 01 01:H01
_	Str.p. AS/3501-6 (0)	[6][]-10 1/9 EP4-11
-	SHIP. P755904. (0145:90-135)52	T6111-10-178-EP12-8
	P755/934	T6III-10-177-EP12-7
_	T300/P1700	T6111-10-176-PS1 8
	•	T6III: 10 172-MG5-14
total Structures		T6III-10-167-GL3-3
_	grapmie/grass	T6111-10-166-AL12-12
1001 Structures	Variational resource	T6111-10-165-AL12 11
1006 Structures		TSH11-10-164 AL 12-10
1005 Structures		Tell 0.163.MPS.C.8
1004 Structures	Surp. LAC 23-4688. elastomer	6 0 14 007 07 11101
	Surp. GY70/201/2024 clad. (90)	16III-10-162-AL6-8
	Stup. GY70:201:2024 clad. (90)	T618:10-161-AL6-4
_		T6111 10-158-EP3 12
		T6III-10-157-EP3 11
_		T6111-10-156-EP3-10
_		T6III-10-153-PS2-12
_		T6III-10-152-PS2 11
993 Structures		T611 10:151 PS2 10
992 Structures		T6H1.10.150.5S1.10
991 Structures	Stray, trade 1,R35	Telle o 140 MDC. C.
990 Sinclures	Sirp, LAC 23-4689, etastomer	0 000 000 000 0000
Spuctores	Str.p. GV70/X-30 (0/45/90/135)4	0.141.01.01.01.01.01.01.01.01.01.01.01.01.01
	Sinp. Gy70x.30 (0/45/90/135)4	[6] -10-146-EP1-7
_	Sinp. GV70201/2024 dad. (0)	T6III-10-145-AL5-14
	Sirin . GV70/201/2024 clad. (0)	T6III-10-144-AL5-13
_		T6111-10-143-AL5-6
t b B		

۵	Das Application	Description	9
٦	963 Suuciules	Sup. LAC 23 4688, elasioner	Ol aidilla
ā	982 Shuthwes	GY70/201/2024	Telli 9-142-MPS-C-5
õ	981 Syuctures	Sing. GY70201/2024 dad. 190)	16111-10-141-AL4-8
70	980 Shuthings	GY 70/201/2024 clad	16111-10-140-AL4-7
à	979 Structures	GY76/201/2024 Clad	16111-10-139-AL3-13
978		GV 70:201:2024 clad	16111-10-138 AL3 11
977 04	_	5.C:6061As	16111-10-137-AL3-10
977 03		Wire SC6061A	T6HI-10-136-14
977 02	•		16111-10-136-13
4270			16111 10 136 12
916	_		F6111-10 136-11
975	_	WHE PSS (10NUA791C	T6111-10-135-10
715	Structures	War, ProdukZaiB (1 B)	1610-10-135-9
679	Structures		16HP 10-135-8
218	Shuttonik K	Wire Prosecut At its and	16111-10-135-7
176	_		T6III-10-135-6
970	_	P55/6/95 At /I B3	T6111-10 135 5
696			T6111-10-135-4
70			T6HI 10-135-3
	_	Constitute of the B	T6111-10-135-2
430		FIUMACOIA (II + B)	T6111-10-135-1
580	Witagian .		T6111-10-134 AL7-13
735	Structures		T6111-10-134-AL7-12
- 95.7		G110/201 C40 (01260*)5	T6III 10-133-AL7-15
		\$\(\lambda_0\) \(\text{CO.10}\) \(\text{CO.10}\)	T6111-10-133-AL7-14
200		GY70/201/2024 clad, (0/±60°)s	T6111-10-132-AL7-7
		P75S5934, 102 ISA	T6111-9-132-CM48-5
9 6		P/55/934. 102 ISA	T6111-9-132-CM48-2
6 G G		G779/2011/2024 Clad (0/160")s	T6111-10-131-AL7-3
		P755/F593, 102-270	T6111-9-131-CM47.4
926	Contract of the Contract of th	P75SrF593, 102:270	T6111-9-131-CM47.1
4	Structures	GF10/201/2024 Clad. (0/1607)s	T6III-10-130 AL8 5
476	Structures	Correction Clad. (0/160*)s	T6111-10-129-AL8-3
200	Sanciales	Sing 1900 (stringston in one	T6111-10-122-P14
344	Siructures	SAME TANKET (10.50)	T6111-10-119-PS1-10
696	Skucimes	FACOUNTIES (CAROLEONIOS)S2	T6111-10-118-P15-6
196	Siractures	こうできる しょうしょう (のものはない) (のこう) (T6111-10-117-P15-5
076	Structures	0.00.00	T6111-10-115-EP21-4
939	Sputines	7.33/c. 133, (0/45/90/135)S4	T6III-10-114-EP21-3
806	Siverines	Stourstanding (*10". 10")	T6111-10-113-MG10-6
937	Spuctures	F10UACS1CACS1A (+10"/-10")S	T6111-10-112-MG10-4
818	Spragues.	PigG201/2024 AI (+20+-20+)S	T6111-10-111-AL33-8
935	e emposion	F100726172024 AI (-20*7-20*15	T6111-10-110-AL33-1
1		Skip. GY70'K JOJGKSRD01135JS2. Sn·In Eulectic coaling	TGIN.10-109-EP2-5

DECIMABLICATION	Description	
	Chara Thinhanteether sistements leating At coating	T6III-10-108-PS12-1
934 Shuctures	Com Car leas Car Cold	T61H-10-106-AL32-7
932 Siretures		T6111-9-105-MPS-G-4
93: Shucimes		T6III 10-104-EP13 3
930 Siruciuses		T6111-10-103 MG5-3
929 Structures		T61II 10-102-EP22-8
Spartings Spart		T6111 10 101 PS2 2
Structures 4 % P	W 727 (Graphie-Glass Tabac) F1700 epsilon meas . 303	T6111 10 100 MG3 18
976 Structures		TEIII: 10 97 At 32 6
Southernes (Co	Sup. SC liber, SC SZ/Al	TELH TO DE AL 14 4
Structures		TEHT 10 05. ALE 7
101213115	Spip GY10701-7074 Gad (90)	LOCIA NO OL MIST
	Sing SiC whisters/2124 At	C 10 14 CO OF 111.54
_	Sinp. Sic. whishers/5051A3	3.15.15.15.16.1 3.15.15.15.15.16.1
-	Sinp. WS0054/£733A/AZ318 clad. (90)	1610 10:92 MGB:3
		T6111-10 91-PS1 4
		T61II-10 90-P12 4
and worthfrom	•	T6111-10 89-PI1 5
915 Studioses		T6111 10 88 AL 14 16
914 Structures		T6HI-10 87-EP22 2
913 Spectures		T6111-10-86-EP7-2
STUDENCE STORES	Strip, Galdway (and a sold and a	T6111-9-85 MPS-C-2
911 Studiures		T6111-10-84-EP6-2
910 Structures		T6111-10-83-EPS-2
909 Structures		T6111 10.80 EP10.2
Structures 200		T6III 10.79.AL6.3
\$00. Structures	•	T6111.10.76.EP13.4
902 Structures		TEH: 10 75:MG9-L7
401 Structures	Strp. P100:A291C/A261A (0")	TGH: 10. Z4.MGS 22
Section Section 5	Sonp. VSOGS&EZ3JAVAZ318 dad. (0). epsi meas. SG1	77 FOR 71 OT 11101
	Sup. 1300/polyether sullone, epsi meas . SG2	1104-57-01-11101 0-104-57-01-11101
_	Surp, Celion 6000/PMR-15, eps1 meas. SG3	16111-10-72-211-6
	Stree VS0054F233&/A2318. (90)	16III 10-71 MG4-14
		T6111: 10: 70 MG4 3
		T6III 10:69:MG9:L6
		T6III-10-68-EP1-3
and the sections		T6III-10-67-P12-2
-	SUID, GARANTELLAND, 1900, EPS. 1900	T6III. 10-66-PS1-2
192 Streetwes		T6111-10-65-P15-3
191 Structures	Sing. (1900/1784 (0/49/90/135)27. eps. meas. ucio	T6111-10-64-EP4 3
190 Structures	Brigg, Actual of App metal of the	T6111:10-63-EP3-2
Structures		T6111.10.58.EP4.7
184 Structures		TEIII.10.57.FP4.6
Structures	AS/3501-6 (T6III.10.56.EP12.4
682 Structures	Strp. P755/934, (0/45/90/135)52	Tell 10 66 CD12.3

		Description	Sample 10
		Sing graphinglass. Calon 6000/borosdicate glass	T6111-10-54-GL1-2
200			T6III-10-47-MG5-13
			T6111-10-46-AL3 6
2/9	_		T6III-10-45 MG9-T3
	ينب	VSB32:6061 T6:6061	T6111-10-44-AL 12-9
	-		T6111-10-43-AL12 8
F 4	Section 6		T6111-10 42-AL12 7
		Sup lives 1/135. epsi meas. SG13. C15.2	T6111-10-41-SS1-4
* 44			T6HI-10-40-SS1-2
			T6HI-10 39-AL15 13
CEB			T6111 10 38 44
		Wate SCEOSIA	T6111 10 38 43
	_		T6111-10-38-42
	_		T5111-10-38-41
			T6111 10 38-40
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		T6111-10-38-39
7			T6111-10-38-38
7 748	_		T6111 10 38 37
7.			T6111-10-38-36
•			T6111-10-38-35
87.4.78		Wire, S.C.6061.kl	T6III-10-38-34
66.45		War. SC6061A	T6111: 10-38-33
864 OF	***	Wire, Sicholik	T6111-10-38-32
20 49 8	-	Wire, Sicreofial	T6111-10-38-31
10 F.4 O.4		Wire. S.C.6061A1	T6111-10-38-30
E64 63	_	Wize, SiCreosia	T6111:10:38:29
M54 02		Vice S.C.5061A1	T6111-10-38-28
#64 D3	_	Wife, S.C. 505661A	T6111-10-38-27
40.53		Wire, P55 (10K) A291C	T6111-10 37-26
A53 03	_	Wire, PSS (19K) A291C	T6111-10-37-25
A63 02		Wise, PSS (10N) A291C	T6111-10-37-24
862 01	_	Wire, P100/A2318 (Ti + B)	T6III-10-37-23
158		Sing, 1300 isper934 (0)	T6111-10-36-EP3-6
099		Sing. LAC 23-4668. elaziomer	T6111-9-35-MPS-C-1
628		Sing. 1306 (196/934 (0)	T6111-10-34-EP3-5
858		Sinp. W 722[Graphie/Glass labnc//P1700	T6111-10-31-PS2-6
550		Strp. W.722(Gaphite/Glass tabnc)/P1700	T6III-10-30-PS2-5
854		Sing. GY70/CE339, (0145/90/135)52	T6111-10-29-EP22-5
853	_	Sing, bran (1935	T6III-10-28-SS1-9
850		Strp. P100/A291C/A261A (96)	T6111-10-25-MG9-T1
571	·	Sing. GY70/X-30 (0:45/90/135)4	T6111-10-24-EP1-4
878	_	Ship. GY70:201/2024 clad. (0)	T6111-10-23-ALS-12
₩ 8		GY70/201/2024 Cad.	f6111-10-22-AL5-:1

2		Description	Sample 10
			T6111-10-21-AL5-5
918	Supplies	CT / (0/201/2024 CAO.	T6111-10-20-AL3-5
645	Structures		TEIL, 10, 19, Al 4.4
778	Siruciuse	\$4.0. GY10:201:2024 dad. (90)	TC11 10 10 11 7.3
100	Structures	Sing. CVICTOUTOPA Cad. (90)	5 3 4 K 6 6 11101
		Sup 955x606inf06infl (90) epsi meas SG16	16111-10 17-ALIS 4
		Swip PSS(606)/SG6/A (0) epst meas SG17 CTS1	T6111 10 16 AL 14 11
	Structures	Ų	T6HI 10 15 AL3-12
910	Structures	0.00.00.00	T6III 10 14 22
639 02	Spuckaras		16111 14.21
639 0:	Structures	Wee, Proceeding (* - B)	5
838 D4	Serional S	Wine PSS (IOM) 6061A	15.11.00.11.00
E0 8E#	Spartings	Wie. P55 (10K) 6051A!	n
20 818	S. S	Wire, P55 10X1 6061A1	10111101410
		Ware, P55 (10%; 606)As	16111 10 14:17
		Wire Propessive (T. + 8)	16111-10-14-16
D AND	Singsings		T6111 10 14 15
617 03	Shuckings		T6111 10 14 14
23 / 63	Shugtur	Life Door of the	1611 10 14 13
10 / 10	Suggintos	Vice P10055051AI (Tr. + U)	21 71 01 1131
ALB		Whee, 1300-5361A3	21 7 0 1101
		Vine. 7300:8061Ai	16111 10 13 11
A .		. –	T6HI 10-13-10
634 02	Septions		I6III-10-13 9
81¢ 01	Shutshies	TOTAL PROPERTY	T6III-10-13 8
40 664	Structures		T6III-10-13 7
10 553	Structures	WILE CAZO GENZOS	[6111.10.13 6
632 63	Structures	Wire, 1955, (1.02)/5061, Al (1 1.)	
632 05	Structures	Wee. PSS (FORESS) AT (Tr B)	
£31 03	_	Wise, Progratist (fr fl)	10111:10:13:4
		Was PIOCAZGIA (1 - B)	T6III-10-13-3
63163	* a misonaic	WALL DESCRIBES (See B)	T6HI-10-13-2
20 1£8		CHAIN DOCUMENTED FILE DA	T6HI-10 13-1
831 01	Semple and		T6111-10-12-AL7-4
920			T6111-10-11 MG7-6
629	Structures	-	TSHI. 10. 10. Al 7.6
878 Ot	Shuchus		Telli, 9, 10, Chike 4
828	Shuckates	Syrp. P755/934	Tem o to Char
127	Spucines	Sind. Preside	10111-9-10 Control
828	Suuciues	Sep. Profess	0 (2000) 6 6 11101
416		Srip. P75S/F593	16111-9-9-CM47-3
274 €		V\$30550EZ33A4KZ318 {0e50*js	T6111-10-9-MG7
7.73		Grantungias Cenon 6000 torositrate glass	T6111-10-7-Gt2-2
720		116.43 polygydachydano/ patycherydainosyline blend/Low temp PAN composite	T31V-16-90-D
		#6.43 colympiatethene (PAAspotyphenylgunoxyline (PPO) blend/1300 carbon labric composite	13IV-16-89-C
C		Assessment published (PAA) (300 carbon fabric composite	T31V · 16 · 88 · B
		tes to advantage to the Control of the Composite	T3IV-16-87-A
E12		MANAGE FOR A SAME SAME SAME SAME SAME SAME SAME SA	13.V
36/	age of Studenther		

Ω	DBS Application		. :			Description	Sample ID
~	79.8 Speciales					Casphieraphy (continoned) [1.300 undirectional tape/Fiberte EA 934 epoty resin [01])	T31V-8 68-103
	793 Sucrores					Capaterpolysulone (1 300 P 1700 polysullone resin (0" 90"))	T31V-8-67-25
**		-				E glass tadactie and fibribili, 250°F	T3IV-9-35-CM39b
		.•				KEVI ARABONY MAS INDICKSOAS HOHIGH 350°F	T3IV-9-34-CM37b
•						19615 116.04 lathic [1012/19017]. 350 f	\$31V-9-33 CM41q
***	-					that were their some	T3fV-9-32-CM22b
**					*	Control 6000 6 168 (10) et 1 150 f	T3IV-9-31 CM29b
	34mgmas 951			٠		1 50 7 253 (10116) 100 f	T31V 9 30-CM43b
**	195 Structures					10M 116/34 1845/45 350 F	[31V-9-29-CM34a
~	154 Smarther					s southanne du seil and seil and seil	T31V 9-28 CM17b
**	153 Southwest				٠.	1 500PANIMESOAB 10 11011611 350 F	\$31V 9 27 CM13a
3	157 Smatterer					i sources floring 350 t	T31V 9 26 CM9b
•	PS. Structures			•		350-F263 [[0]16]T 350-F	f3IV-9-25-CM5b
*	150 Severares					CY72-CK 119. [10116]1. 250-F	T3IV-9-24-CM1a
••	172 Snorwes			:		. Canon 6000/67881-454 45121-45141. 350 f	T3!II-9-70-CM31b
•	131 Shortane	٠				1 SON 2353 - 454 4532-45341 300-F	f3III-9-69-CM45a
•	170 Statemor					ns ur alternary was taracussons teastes uso f	13III 9-68 CM38a
74	FLA Structures					E 50;PARI; (£ / 28) - 45; (45) 20 - 45; (47) 350 \$	3111-9 67 CM19d
***	PAR Structures		-		•	soupanies to the solution of t	(3111-9-66-CM15c
**	1:1 Suggines			•		i sorphancipals. 454 asia estat. 350 f	T344-9-65-CM11a
~	16 Smelwes					\$50xF261;	T3111 9-64 CM7d
~	215 Structures					CYTOICE 1131-ess essentialist. 250's	13tit 9-63-CM3d
•	210 Sauctures					States names, 2 layer sandwich (loam layer 0.45' mich, skin layer 0.03' ihick)	T3111 8-58 S3
**	109 Structures				-	Strong nainds. 2 layer sandonch floam layer 0.45" thick, skin layer 0.03" thicks	T3III-8-57-S15
*	108 Smuchares	•	:			Gagehiterepary (* 300 uniduectional tapeifiberite EA934 oposy resin (01)	T3HF8-56-11
*	107 Shuckuras					Cooperationaries (1115.7 unduectional taperPMR 15 [0:])	13111-8-55-31
**	FOC STONES					Three demendents quart phenolic	13111 3 54 11
**	tos Spurmes		٠,			Street demensional givests premote	T3H 3-53 H
*	704 Sputtares					Craphie potteriore	T3111.3.52 IV
•	763 Structures					Caushing polystallang	13111-3-51-1V
-	102 Shuthines		-			tage emposed carbon phenotic	13(11.3 50 1
••	tor Swasines					fape-wrapped castons phenolic	13111-3-49-1
**	100 Structures	. •				Pyriddie carbon, Pyro Carb 431	T3111-3-48-V11
. 😘	699 Shuddings					Principle Cubbs. Prio Carb 431	T3HI-3-47-VII
٠	690 Sincipres	•				Aluerians GOOT 16	T3H 3.46.V
•	69.1 Structures			,		Aluminum 6061 16	13III-3-45-V
w.	694 Structures					Assertant 2024. Actio aloy	T3111-3-42-111a
•	693 Structures					Assertant 2024. Auto aloy	T3III-3-41-IIIa
•	653 Sportares				:	Spacial exponeungeren beanng resin	T3III-3-40-IV
•	641 Stuttures			•	ē	Special carboniturgaten beging ream	13111-3-39-17
9	SEU SPUCTORS		•			Cauthing polynthics	T3111-3-38-111
•	689 Sauctures					Chapture polymode	13111-3-37-111
æ	680 Sportmer				:	Cenar Goodf 7881(0)2198)211. 350°F	T3111-9-28 CM325
					:		

80	D8#Application	Description	Sample 1D
679	Structures	150/F263 [(0)2/(90)2]T, 300°F	T3111-9-27-CM46a
578	Structures	HMS/3501-5A[(0)2/(90)2 T, 290°F	T3111-9-26-CM28b
219	Structures	T.50(PAN)/E788[(0)2/(90)2]T. 350°F	T31II-9-25-CM20a
929	Siructures	T.50(PAN)/X904B.10[(0)2/(90)2]T. 350°F	T3111-9-24-CM16b
675	Structures	1 50(PAN)/934[10)2/190)2 T. 350'F	13111 9 23 CM12b
670		Celion 6000/E7888j+45/(45)2/+45j41, 350°F	T3111 9-18 CM31a
699	Siructures	T-50/F263 [+45/1-45)2:+45 4T, 300 F	[31] 9 17 CM45b
899	Structures	KEVLARIepox; K49 fabric/X904B (±45)4S, 350 F	13111 9 16 CM38b
199	Siructures	T 50(PAN)/E788[+45/; 45)2'+45 41, 350 F	13111 9 15 CM19c
999	-	T:50(PAN)/X904B 10 +45/(45)2/+45 4T 350 F	[31] 9-14 CM15b
999	Structures	F 50(PAN):934 +45,1-45)2++45 41. 350 F	[3]][9-13 CM11d
664	Structures	150/F263 +45:(45)2.+45 41. 350 F	1311 9 12 CM7c
663	3 ructures	GY70/CE-339(+45/ 45/+45)41, 250°F	[3H] 9 11 CM3c
662	_	Cetion 6000/E788[0/(90)2/0]4T, 350°F	T3111-9-10-CM30a
199	Structures	T50/F263 [0/(90)2'0]4T 250 F	[3][] 9 9 CM44b
660	Structures	KEVLAR/epoxy K49 labric/X904B [[0]2/[90]2]T. 350 F	1311 9 8 CM42a
629	Structures	I 50(PAN)/E788[0:(90)2/0]41. 350°F	13111 9-7 CM18b
658	Structures	1 50(PAN)/X904B 10[0:(90)2'0]4T. 350 F	. [31]] 9 6 CM14b
59 81	7 Structures	T-50(PAN)/934[0:190)2/0[4]. 350 F	[311] 9 5 CM10a
959	Structures	T50/F263 ((0)2/(90)2)1. 350'F	[31]] 9 4 CM85
959	Structures	T50/F263 (0/(90)2/0)4T. 350 ·F	T3HI 9.3.CM6a
654	Structures	GY70/CE 339. [(0)2/(90)2]T. 250°F	F31ff 9-2 CM4b
553	Structures	GY70/CE-339. {0/(90)2/0}4T, 250°F	13111 9-1-CM2a
652	Structures	HA-43 polya:ylacetylene (PAAl/polybenzimidazo:e fiber (PBI) composite	1311 16.76 G
651	_	Polyphenylquinoxiline (PPO) film on Ai	F3H-18 75 Y
634	Structures	Composite (unknown fiber/matrix)	T3H: 16:58-F
519	_	Silicon nitride, 2-layer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	1,6VI-8-20 SS
518	_	Sticon nitride foam	L6VI-8 19-F1
517	_		£6VI:8·18·S4
499			L6111-10 244-AL14-6
495		Strip. GY70/934 (0/45/90/135)S2	L6111-10-240-EP13-13
497		Strip, Graphite/LARC:160	L6HC 10 237 P12 7
167	_		L6III-10-236-P12-6
430	Struc.ures	Strip. Graphite/LARC-16	L6111-10-235-P12-5
489	_	Strip. 7300 Fabric/P1700 (0. 90)	L6III-10-234 PS1-11
488	_	Strip. T300/V378A (16 ply)	t 61II: 10-233-P15-9
487	_	Strip. T300/V378A (16 ply)	L6III 10 232-PIS-8
486	_	Strip. T300/V378A (16 ply)	L61i1-10-231-P15-7
485		Strip, P75S/CE-339 (0/45/90/135)S4	L6III-10-230-EP21-6
484		Strip. P75S/CE-339 (0/45/90/135)S4	L6III-10-229-EP21-5
483	_	Strip, SiC (tbgrs/A)	L6III-10-228-AL32-2
482		Strip, SrC thers/At	L6111-10-227-AL32-1
481	Structures	Strip. SiC whiskers/2124	L6III-10-226-AL30-4

		Description	Sample 1D
		Srin S.C. whiskers 605	L6111-10 225-AL31-2
480	Structures	C STACK SALES STACK STAC	L6111-10-224-EP22-9
479	Structures	G17010E:339 (0143)30133132	16111.10 223.EP2.4
478	Structures		LCIII 10.222.ED2.3
477	Structures	Strip GY 70/X 30/Sn-In eut (0/45/90/135)4	10111 10 325 603 56
476	Siructures	Strip P75S/CE 339 (0/45/90/135)54	Lbiii 10:221 EP21:13
_	Structures	Strip P100/AZ91C/AZ61A (0	[6]]]-10-220 MG9-L5
_	Section 2		L6111 10-219-MG9-L3
_			L6111 10-216-MG3-15
_	Stockes		L6111 10 215 MG5-15
	Sidelares		[6111 10:214 MG6 2
_	Structures	VS0054/C7334/A7318 (90)	L6111-10-213-MG6-8
468	Structures		16111.10 209.613.2
464	Structures		1611.10.208.051.6
463	Structures	Strip. 1300 Fabric/P-1700 (0. 90)	1011 10 302 064 6
462	Structures	Sinp. 1300 Fabric/P 1700 (0, 90)	Louis 10-207-1-31-3
_	Structures	Strip. GV70/X903B [(+45/(-45)?:+45]4T	L6111-10-206 EP/ 3
_	Structures	Strip GV70/X904B. (0"/90/90/0)	L6111-10-205 EP6 3
	Stranger	Strip GY70/X904B. (07)	L6111 10 204 EPS 3
			16111 10.203 EP9 2
-			L6111-10 202 EP8-2
	Structures		L6111 10 201-EP11 2
_	Structures		L6111-10 200 EP16 2
455	Structures		1.6Ht. 10-199-EP10-3
454	Structures		LEIII. 10. 198. EP17. 1
453	Structures	_	TOIN 10 100 LD 17.1
452	Structures	Strip. GY70/934 (0/45/90/135)S2	[6][[-10-19/-EP13-6
451	Siructures	Sinp. VS0054/EZ33A/AZ31B clad (0)	L6111-10-196-MG5-8
000	Structures	Srrip. VS0054/EZ33/AZ31BA clad (0)	L6III-10-195-MG3-3
9		Strin VS0054/F233A/A231B (0)	L6III-10-194-MGS-2
4	0.00000		L6III-10-193-EP13-5
\$	מותכותבא		L6111-10-192-MG4-2
447	Siructures		L6III-10 191-AL33-4
446	Siructures		L6HI 10-190-MG3-2
445	Siructures		1.611.10-189-A133-3
444	Structures		16111 10 188 ED22.3
443	Structures		COIII 10 100 P 1 10 0
412	Structures		Lettle 10 - 10 / 24 3 - 3
441	Structures	Al clad.	L6III-10-186-#L15-2
440	Structures	Strip, VSB32/6061·T6/6061 Al clad, (0)	L6III-10-185-AL14-15
439		Strip, VSB32/6061.T6/6061 At clad. (0)	L6111-10-184-AL14-2
438	_	Sinp. VSB32/6061-T6/6061 AI clad. (0)	L6III-10-183-AL14-9
437	-	Strp. Celion 6000/PMR-15. (0)	L6III-10-182-PI1-7
436	_	Strip. AS/3501-6 (0)	L6111-10-181-EP4-10
435	_	Strip, AS/3501-6 (0)	L6III-10-180-EP4-9
434		Strip. AS:3501-6 (0)	L6111-10-179-EP4-8
433	صتنب	P75S/934.	£6111-10-178-EP12-6
	•		

	DBs/Application	Description	Sample 10
1	432 Structures	Strip. P75S/934, (0/45/90/135)S2	L6111-10-177-EP12-5
		_	L6III-10-169-MG5-12
	_	Sinp. P100/A291C/A261A (+10"/-10")S	L6HF 10-168-MG10-2
	_	Sinp. P100/A291C/A261A (+10"-10")S	L6III-10-167-MG10-1
	_	Surp. VSB32/6061-T6/6061 Al (0)	£6111-10-166-AL12-6
	420 Structures	Strip. VSB32/6061 : T6/6061 A! (0)	L6111-10-165-AL 12-5
	_	Sup. VSB32/6061-16/6061 A! (0)	L6III-10-164-AL12-4
	418 Structures	Sinp. GY70/201/2024 clad, (90°)	L6III-10-163-AL6-10
	417 Structures	Surp. GY70/201/2024 clad. (90°)	L6111-10-162 AL6-6
	416 Structures	Strip. GY70/201/2024 clad. (90")	L6111 10-161 ALG 2
	413 Structures	Strp. T300 tape/934. (0)	L6III-10-158-EP3-9
	412 Structures	Strip. T300 tape/934. (6)	L6111-10-157-EP3-8
	411 Structures	Strip. 7300 tape/934. (0)	L6III-10-156-EP3-7
	308 Structures	Simp. W-722(Graphite/Glass fabric)/P1700	L6III 10-153-PS2-9
	407 Structures	Strip. W 722(Graphite/Glass fabric)/P1700	L6111-10-152 PS2-8
	406 Structures	Strip. W 722(Graphite/Glass fabric)/P1700	1,6111 10 151 PS2 /
	405 Structures	Strip, Invar LR35	L6111-10-150-SS1-8
	404 Structures	Strip. GY70/CE339 (0/45/90/135)S2	L6111-10 149-FP22-11
83	402 Structures	Sinp. GY70/X:30. (0/45/90/135)4	L6III 10 147 EP1 6
	401 Structures	Strip. GY70/X-30. (0/45/90/135)4	L6III-10 146 EP1-5
	400 Structures	Strip, GY70/201/2024 clad. (0")	L6111 10-145-ALS 10
	399 Structures	Strip. GV70/201/2024 clad. (0")	L6III-10-144-AL5-4
	598 Structures	Strip. GY70/201/2024 clad. (0")	L6111 10-143-AL5-3
	397 Siruclures	Strip. VSB32/6061-T6/6061 AI clad. (90)	L6HI-10 142-AL15-10
	396 Structures	Sinp. GY70/201/2024 clad. (90°)	L6III-10-141-AL4-6
	395 Structures	Strip. GY70r201r2024 clad. (90")	L6III-16-140-AL4-5
	394 Structures	Strip. GY70r201/2024 clad. (0")	L6III-10-139-AL3-9
	393 Structures	Strip. GV70/201/2024 clad. (0")	L6H1-10-138-AL3-8
39	391 04 Structures	Wire, SiC/6061 At	L6111-10-136-14
39	391 03 Structures	Wire, SiC/6061 AI	L61(1-10-136-13
39	391 02 Structures	Wire, SiC/6061 Af	L6HI-17-136-12
39	391 Of Structures	Wire, SiC/6061 Al	L6III 10-136-11
	390 Structures	Wire, SiCi6061 Al	L6111-10 135-10
	389 Structures	์ Wire. P55 (10K)/ A7ัยเป	L6HH-10-135-9
	388 Structures	Wire, P100/AZ318 (T1 + 8)	L6iB-10-135-8
	387 Structures	Wire. P55 (10K)/6061 Al	L6HI-10-135-7
	386 Structures	Wire, P100/5061 AI (Ti + B)	16111-10-135-6
	385 Structures	Wire, T300/6061AI	L6111-10 135-5
	384 Structures	Wire, P55/6061AI (Ti + B)	L6111-10 135-4
	383 Structures	Wire, GY70 (87)/201	L6III·10-135-3
		Wire, P55 (Ti02)/6061 AI (Ti + B)	L6III-10-135-2
	381 Structures	Wire, P100/AZ61A (Ti + B)	L6III-10-135-1
	380 Structures	Simp. P75S/F593, 102-270	L6III-9-134-C47-12

		Describlion	Sample ID
			L6III-9-134-C47-9
379	Structures	F/35/F395.	16111.9.133.C48.10
378	Structures		1611 0 122 0 40 7
377	Structures		LOIN: 9: 155: C40:
376		Strip. GY70/201/2024 clad. (0/460°)s	L6111: 10: 132:AL7:3
375	Structures	Strp. V50054/E233A/AZ31B clad. (0/±60·)s	Committee of the committee of
374	Structures	Mirror_GY70/201/2024_clad_{0/±60°}s	[6][[-10-130-AL6-2
367		Mirror, GY70/201/2024 clad(0/±60')s	L6III: 10: 123: ALB 4
366	Structures	Sinp. Celion 6000/polyimide	
365	Structures	Sinp. graphite/LARC 160	L6III.10.121 P12 3
364	Structures	Strap. AS/3501·6 (0)	[6111.10.120.EP4.5
36.1	Structures	Sinp. 1300 Fabric/P1700. (0/90)	L6III-10-119-PS1-9
36.2	Structures	SIND. T300/V378A (0/45/90/135)S2	L6111 10 118 PIS 4
361	Stuctures	Sirip. T300/V378A (0/45/90/135)S2	L6111 10 117 P15 1
360	Structures	Strip, SiC libers/At	L6III-10-116-AL32-8
350	Structures	Strip P75S/CE339 (0/45/90/135)S4	L6III-10 115-EP21 2
000	Structures	Sinp. P75S/CE399 (0/45/90/135)S4	L6III 10 114 EP21 1
750	Securities	Strip, P100/201/2024 (+204/-20")S	L6III-10-113-At33-6
366	Starchies	Stup, P100/AZ91C/AZ61A (+10º/::0')S	L6III:10 112:MG10 7
336	Serio Contraction of the Contrac	Strip. P100/AZ91C/AZ61A (+10'/ 10')S	L6111 10 111 MG10 5
000		Strio GY70/CE339 (0/45/90/135)S2	L61II-10-110-EP22-7
* 6			LGIII: 10 108 PS9
266	Silocioles		L6III-10-106-AL33-2
350	Structures	C	L6111-10-105-P12-1
349	Structures	Cerr. 1200/1786 exclor meas SG2 (0/45/90/135)S2	L6111-10-104-P15-2
348	Structures		L6III-10-103-PS11-1
347	Structures		L6111 10 102 EP1 1
346	Structures	GT/U/A-30/307-fill eut (U/4-0/30/1-35)4 epsilon	16111-10-101-P11-1
345	Structures	Sinp, Celion 6000/PMR-15, epsilon meas 1000 (0)	1.6111.10.100.FP4.2
344	Structures	•	1611-10:00:EP2.2
343	Structures		2.2.2.2.6.0.1.10.1
342	Structures	Strip. GY70/X-30/Sn-In eut (0/45/90/135)4	LbIII-10-98-EPZ-1
341	Structures	Strip, graphite/glass: Celion 6000/borosilicate glass	[6] -10-9/-GL3
340	Structures	Strip, SiC whiskers/2124 Al	L601-10-96-AL30-2
339	Structures	Strip, SiC whiskers/6061 Al	L6H-10-95-AL31-1
338	Structures	Strip, VS0054/EZ33A/AZ31B clad, (90)	L6III. 10.94.MG6.9
337	Structures	Strip. SiC tibers./Ai	L6III.10-93-AL32-4
336	Structures	Strip. VS0054rEZ33A/AZ318 clad. (90)	L6III-10-92-MG6-1
335	Structures	Strip, 1300 Fabric/P1700, (0.90)	L6III-10-91-PS1-3
722	Structures		L6III-10-90-EP22-1
	Structures	Strip, Celion 6000/PMR-15(0)	L6111-10-89-P11-4
222	Structure		L6111-10-88-P11-3
331	Structures	Strip. HMS/3501-5A, (0)	L6111-10-87-EP9-1
330	Structures	Strip, HMS/3501-5A, (0/90/90/0)4	L6111-10-86-EP8-1
329	Structures	GY70/X9048. [L6III-10-85-EP7-1

90	DBIApplication	Description	Sample ID
328	Structures	Strip, GY70/X904B. (0/90/90/0)	L6111-10-84-EP6-1
327		Strip. GY701X904B. (0)	L6III-10-83-EP5-1
324	_	Strip, E-glass 120 Fabric/X904B. (0)	L6111-10-80 EP10-1
323	_	Strip. VSB32/6061-T6/6061-AI clad (0)	L6111-10-79-AL14-14
322	_	Strip. VSB32:6061 I6/6061 Al clad (0)	L6111 10 78 AL14-1
320		Strip GY 70/934 (0/45/90/135)S2	16H 10-76-EP13-2
319		Sinp VS0054/E233A/A2318 clad (0)	L6111 10 75-MGS-6
318	_	Strip. GY70/201/2024 clad (90)	L6111-10-74-AL6-9
317	Structures	Strip P100/AZ91C/AZ61A (90)	L6111-10-73 MG9 T6
316	_	Strip GY70:934 (0.45.90.135)S2	LGIII-10 72-EP13 1
318		Sinp. VS0054/E233A/A2318 clad. (0)	L6111 10:71:MG3:1
314	Structures	Strip. P100/AZ91C/AZ61A (90)	L61/1 10-70 MG9 T2
313	Structures	Strip VS0054/E233A/A2318 clad. (0)	L6111-10-69-MG3 5
312	Structures	Strip. 1300 Fabric/P1700, epsilon meas., SG7. [0:90]	L6111-10-68-PS1-1
311	-	Strip. W-722(Graphite/Glass fabric)/P1700, epsilon meas .SG8	L6111 10 67 PS2.1
310	Structures	Stup, 1360 tape/934 (0), epsilon meas. SG9. CTS 1	L6111-10-66-EP3 1
308		Sinp, Invar (R35 epsilon ineas., SG11, CTS 2	L6111-10-64-SS1-3
307	Structures	Strip, Invar 1 R35, epsiton meas, SG12	L6H1-10 63 SS1 1
304		Stnp. VSB32/6061 16:6061 At clad. (0)	L6111 10-60 AL 12 3
303	Structures	Sinp. VSB32/6061 T6/6061 At clad. (0)	L6111-10-59-AL12-2
305	Structures	Strip, W-722(Graphite/Glass fabric)/P1700	L6HI-10-58-PS2-3
301	Structures	Suip. AS/3501-6 (0)	L6111-10-57-EP4-4
300		Strip. P75S/934 (O/45/90/135}S2	L6111-10-56-EP12-2
562		Strip. P75S/934 (0/145/90/135)52	L6111-10-55-EP12-1
298	Structures	Strip, graphite/glass Celion 6000/borosilicate glass	L6111-10-54-GL1-1
291	_	Strip, P10t/AZ91C/AZ61A (0°)	L6III-10-47-MG9-L2
288	Structures	Strip. GY70:201/2024 clad (90)	16111-10-44-A16 5
287	_	Strip, GY70r201/2024 clad (90)	L6111-10-43-AL6-1
286		Strip. VSB32/5061-T6 Au6061 clad (0)	L6111-10-42-AL12-1
285		Strip, VS0054/FZ33A/AZ318 (0). epst meas . SG13 clad	[6]II-10-41-MG5 23
284		Sinp. VS0054/EZ33A/AZ318 (0). epsl meas. SG14. C1S3	L6HII-10 40-MG3 17
283		Strip, VSB32/6061-I6 Al/6061 clad (90), epsl meas. SG15	L6H1-10-39-AL15-8
282 18	_	Wire, SiCr6061 Al	L6III-10-38-44
282 (7	_	Wire, SiC/6061 At	L6111 10:38:43
282 16	_	Wire, SiCr6061 At	L6H1·10 38·42
282 15	_	Wire, SiC/6061 Al	L6111-10-38-41
282 14	_	Wire, SiCi6061 Al	L6111-10-38-40
282 13	_	Wire, SiC/6061 Al	L6111-10 38-39
282 12		Wire, SiCr6061 AI	L5111-10-38-38
282 11	-	Wire, SiC/6061 Al	L6111-10-38-37
282.1		Wire, SiC/6061 AI	L6111-10-38-36
282 09	Structures	Wire, SiC/6061 Al	L6III-10-38-35
282 08	282 08 Structures	Wire, SiC/6061 Al	L6111-10-38-34

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	DB# Application	Description	Sample ID
7	282 07 Structures	Wire, SiC/6061 Al	L6III-10-38-33
ス	282 06 Structures	Wire, SiC/6061 At	L6III-10-38-32
7	282 05 Structures	Wire, SiCi6061 At	L6Hi-10-38-31
2	282 04 Structures	Wire, SiCr6061 Al	! 6HII-10-38-30
21	282 03 Siructures	Wire, SrC/6061 Al	L6111-10-38-29
35	282 02 Structures	Wire, SiCi6061 Al	L6III-10 38-28
32	282 01 Structures	Wire, SiCi6061 Al	16Hi 10.38 27
26	281 03 Structures	Wire. P55 (10K)/A291C	L6111 10-37 26
26	281 02 Structures	Wire, P55 (10K)/AZ91C	L6III-10-37-25
28	781 01 Structures	Wire. P55 (10K)/A291C	1.6111 10 37 24
	280 Structures	Wire, P100/A231B (Tr + B)	L6111 10 37-23
	279 Structures	Strip. P100/A291C/AZ61A. (0.)	L6111 10:36 MG9 L1
	278 Structures	Sirip. 1300 tape/934, (0)	L6111-10-35-EP3-4
	777 Structures	Strip. 7300 tape/934. (0)	L6III 10-34-EP3-3
	274 Structures	Strip. W-722 (Graphite/Glass fabric)/P1700	L6111 10 31 PS2.4
	271 Structures	Strip, Invar LR-35	16HF-10-28-SS1-7
	268 Structures	Surp GY70:201:2024 clad. (0) (1 ply)	L6III-10 25 ALS 2
8	267 Structures	Sinp. GY70/X:30 [0/45/90/135]4	LGIII 10 24 FP1 2
б	266 Structures	Sinp. GY70/201/2024 clad. (0). (1 ply)	L6111 10 23 A1 5 1
	265 Structures	Sinp. GY70/201/2024 clad. (0). (1 ply)	L6HE-10-22 ALS 9
	264 Structures	Sinp. GY70/201/2024 clad. (90')	£6111-10-21 AL4 2
	263 Structures	Strip, GY70/201/2024 clad. (90')	L6III-10-20-AL4 1
	262 Structures	Sinp. GY70/201/2024 clad. (0). (f ply)	L6III-10-19-AL3-4
	261 Structures	Sinp. GY70/201/2024 clad. (0). (1 ply)	L6111-10-18-AL3 3
	260 Structures	Strip, VSB32/6061-T6/6061 At clad. (90°). epsl meas, SG16	L6HI-10-17 AL15-1
	259 Structures	Strip. VSB32/6061-T6/6061 At clad (0) (1 ply), SG17, CTS4, epsl meas	L6III-10-16-AL14-10
	258 Structures	Strtp. GY70/201/2024 dad (1 ply) (0). epsl meas. SG18	L6III 10-15 AL3 2
25	257 02 Structures	Wire, P100/AZ31B (Tr + B)	L6III-10-14-22
25		Wire, P100/AZ31B (Ti + B)	L6III-10 14 21
\$2	256 04 Structures		L6III-10-14-20
25	256 03 Structures	Wire, P55(10K)6061AI	L6III-10-14-19
25		Wire, P55(10K)60F1A!	L6III:10:14 18
52	256 01 Structures	Wire. PSS(10K)6061A!	L6111-10-14-17
25	_	Wire. P100/5061A! (Ti + B)	L6III-10-14-16
25		Wire, P100/6061A! (Ti + B)	L6III-10 14-15
52	255 02 Structures	P100/5051AI (Ti +	£6111·10·14·14
25	255 01 Structures	Wire, P100/6061AI (Ti + B)	L6111-10-14-13
	254 Structures	Wire, T300/6061AI	L6111-1C-14-12
		Wire, T300/6061 A!	L6III-10-13-11
25	_	Wire, P55/8061A! (Ti + B)	L6III-10-13-10
52			L6111-10-13-9
25	251 02 Structures	Wire, GY70(81)/201	L6III-10-13-8
28.	25: 01 Structures	Wire, GY70/8T)/201	L6111-10-13-7

ě		Description	Sample ID
		Wine DESTINATION II + B)	L61II-10-13-6
250 05	_	rastrochonom (m	16111-10-13-5
250 01	Structures	Wire, PSS(102)76061AI (11 + 8)	16111.10.13.4
249 04	Structures	Wre. P100/AZ61A (Ti + B)	50.0.000
249 03	Siructures	Wire, P108/AZ61A (Ti + S)	1.6111-10-13-3
249 02	Siructures	Wire. P100/AZ61A (Ti + B)	16111 10 13 2
249 01	Siructures	Wire, P100/AZ61A (1: • B)	16111-10-13-1
248	_	Sinp. GY70/201/2024 (6 ply) clad SG19 (0 t 60 ls. epsl meas	L6111-10 12-AL7 1
247		Simp. VS0054/E233A/AZ318 clad. [0 ± 60']s (6 ply) epsi meas. SG 20	L6111 10 11 MG7-1
245		Sinp. GY70/201/2024 clad [0 ± 60']s (6 ply)	L6III 10-10-AL7 2
245		Sing. VS0054/E233A/A2318 clad [0 t 60 is (6 ply)	L6111-10 9-MG7 3
226		#1A 43 polyarylacetylene (PAA)/polyphenylquinoxyline (PPO) blend/1300 carbon fabric composite	L31V-16-74 C
300		Aerospace polyarylacelylene (PAA)/T300 carbon fabric composite	L3IV 16 73 B
603		HA 43 polyarylacelylene (PAA)/3300 carbon fabric composite	L31V-16-72 A
*67		11A.43 polyary/acetylene/ polyphenylqunoxyline blend/Low temp PAN composite	L3IV-16-71-D
557		Craphiterepory (conditioned) (1:300 unidirectional tape/Fiberite EA 934 epoxy resm [0])	£31V 8 68 12
236		Graphipopolysultone (f 300/ P 1700 polysultone resin [6/ 90"])	L3IV 8-67-24
627		F place (abrorCE:339 ((0)16)1, 250°F	13IV 9:35 CM39
		KEVI #9/200 MAG fabrur/X0048 (10)1611 350 F	131V-9-34-CM37a
87 87	_	HME 176.04 (Abric (10)29012) 350-F	L31V 9 33-CM41b
		THE STATE OF THE S	L31V-9-32 CM33a
194		HMF1/6/34 (2016) - 330 F	131V-9-31-CM29a
193	3 Structures	Celian 6000/E/88 ((0)16)1. 350°1	1 31V 9 30 CM433
192	Siructures	T.50/F263 (10)4)1, 300°F	1314-3-30-CM438
191	Structures	HMF 176/34 labric (+45)4S. 350°F	Loive Sectional
1961	Structures	T-50 (PAN)/E788 ((0)16)T. 350°F	L3IV-9-28-CM1/a
189	Structures	T-SQ[PAN]X9048-10 ((0)16)T, 350°F	L3IV-9-27-CM13b
186	_	I 50[PAN):034 ((0)16]T. 350°F	L3IV-9-26-CM9a
7.61	-	f 50+263 ((0)16) f. 350 F	L3IV-9-25-CM5a
40.		GY70/CE-339. ((0)16)T. 250°F	L3IV-9-24-CM1b
5	_	Composite (unknown liber(natrix)	L3III-16-75-E
70.		Celion 6000/E788(+45/(-45)2/+45)41, 350°F	L3III.9-70-CM31c
10.		T 50/F263 (+45/(-45)2/-45)41, 300°F	L3III-9-69-CM45c
	_	KEVLARGEDGAY K49 (abric/X904B (+45)4S, 350°F	L3III-9-68-CM38d
731		J-50(PANI/E788(+45/(-45)2)+05)4T, 350°F	L3III.9.67.CM19b
	_	T.SOFPAND/XSD4B-101+45/1-4512/+4514T, 350°F	L3III-9-66-CM15a
200	_		L3III.9.65.CM11b
261	_		L3III-9-64-CM7b
	_	GY70/CE:339/+45/(-45)2/+45j4T, 250*F	L3111-9-63-CM3b
37.	_	Shoom nitride, 2-tayer sandwich (foam layer 0.45" thick, skin layer 0.03" thick)	L3III-8-58-S2
771		Sticon minde, 2-tayer sandwich (loam layer 0.45" thick, skin layer 0.03" thick)	L3111-8-57-S12
		Graphte/epoxy (1.300 unidirectional tape/Fiberite EA934 epoxy resin [0*])	L3111-8-56-10
64.	_	Gaphite/ocknowle (HTS-2 unidirectional tape/PMR 15 [0"])	L3111-6-55-30
721		Three dinensional quartz phenolic	L3111-3-54-11
140	_	Three dimensional quartz phenolic	13111-3-53-11
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0	D B s Application	Description	Sample 1D
139	Structures	Graphite polysulione	L3HI-3-52-IV
136		Graphite polysultone	L3III-3-51-IV
137		Tape-wrapped carbon phenolic	13111 3:50:1
:36		Tape-wrapped carbon phenolic	L3111-3-49-1
135	_	Pyraliuc carbon. Pyro-Carb 431	L3III-3 48-VII
134	_	Pyrolitic carbon. Pyro Cario 431	13111-3 47-VII
133	Siructures	Alyminum 6061 16	13111 3-46 V
132	_	Alumnum 6061 T6	L3M-3 45 V
129		Atuminism 2024, AtiCu alloy	L3111-3-42 Illa
128		Aluminum 2024, AirCu alloy	1300 3 41-00a
127	Structures	Special carbon/ungsten-bearing resin	L3111 3 40.VI
126	Structures	Special carbon/ungsten bearing resin	L3111.3 39 VI
125	Structures	Graphite polymide	L3111-3-38-111
124	Structures	Graphite polyntride	T3111-3-32-111
115	Structures	Celian 6000/E788/((0)2/(90)2)1. 350°F	13H1 9 28 CM32
114	Structures	T50/F263 ((0)2/90)2)1. 300 F	L3III-9-27 CM46
113	_	HMS/3501-5A((0)2/(90)2)T 290°F	L3111-9 26-CM28
112	Siructures	T-SO(PAN)/E788((0)2/(90)2)T. 350 F	1318 9 25 CM20
111	Structures	T 50[PAN]×X9048-10[[0]2490]2]1. 350 F	L3111 9 24 CM16
110	Structures	t soepany934 (1012/19012)	L3III-9-23-CM12
105	Structures	Celian 6000/E7881+45/1-45j21+45j4T, 350"F	L3III-9-18-CM31d
104	_	T 50/F263 (+45/(-45)2/+45)41, 306°F	L3III-9-17 CM45d
103	_	KEVLAR/eposy 49 fabric/X9048 (±45)4S, 350°F	L3111-9-16-CM38c
102	Structures	T-SO(PAN)/E788(+45/(-45)21-45)21, 350"F	L3111.9 15 CM19a
101	Structures	T-SO[PAN]XX904B-10[+45/(-45)2/+45]4T, 350°F	L3III-9-14-CM15d
100	Siructures	T-50 (PAN):934/-45:(-45)2/-45)4T. 350°F	L3III-9 13 CM11c
66	Structures	T50/F263 (+45/(-45)2/-45)4T	L3III.9 12 CM7a
96	Structures	GY70/CE 399 (+45/1-45)2/-45)4/-250/F	L3111-9-11-CM3a
97	Structures	Ceiton 6000/E788(0/(90)2/0)4T. 350'F	L3III-9-10-CM30b
96	Structures	T 50/F263 (0/190)2/01/4T, 300°F	L3III-9-9-CM44a
95	S :uctures	Keviaurepoxy K49 labricX904B [[0]2/[90]2]T. 350 F	L3III-9-8-CM42b
76	Structures	T-SO(PAN):E788(O/190)2:O)4T_350*F	L3III-9-7-CM18a
93	Structures	T-50 (PANJ/X904B 10[90[2]/0] 4T, 350"F	L3III 9-6-CM14a
92	Structures	1-50 (PANJ:934(0(90)2/0)4T, 350°F	L3111-9-5-CM10c
91	Siructures	T50/F263 ((0)2/(90)2)1, 350°F	L3111: 9:4-CM8a
06	Structures	T50/F263 (0/(90)2/0)4T, 350°F	L3III.9.3.CM6b
68	Structures	GY70/CE 339, [[0]2([90]2]], 250°F	L3III-9.2.CM4a
60	Structures	GY70/CE-399, (0/(90)2/0)41, 250 °F	L3111-9-1-CM26
63	Structures	Polyphenylqumaxiine (PPO) film on Ai	L3II-18-75-J
792	Structures, adhesive bond	Composite to composite (1-300/934) adhesive joint/Hysol EA 9628 epoxy	1317-8-66-11
161		Composite to composite (1.300/934) adhesive joint/Hysol EA 9628 epoxy	T3IV-8-65-9
790	Structures, adhesive bond	Composite to composite (T-300/934) adhesive joint/Hysol EA 9628 epoxy	T3IV-8-64-7
126	726 Studdines, adhesive bond	HMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3III-9 74-AB2-14

0 0 0	DBS Application	Description	Sample ID
296	Commission adhering bond	HIMF 330C/934-2024-HMF 330C/934 (9628), 250°F	T3HI-9-73-AB2-13
134	Shurtines athean	330C/934-2024 HMF 330C/934 (9628).	T3III-9-72-AB2-12
723	Strandings	330Cr934-2024 HMF 330Cr934	T3III-9-71-AB2-11
674	Shurdings adhesive	HMF 330C/934.2024.HMF 330C/934 (9628), 250°F	T3III-9-22-AB2-9
677	Studines adhesive	HMF 330C/934 2024 HMF 330C/934 (9628), 250°f	13III 9 20 AB2 5
571	Sauctures	HWF 330C/934 2024 HWF 330C/934 (9628), 250°F	T3III 9 19 AB2 1
228	Sructures	Composite to composite (T.300/934) adhesive joint/Hysol EA 9628 epoxy	L3IV 8 66.12
227	Structures	Composite to composite (1 300/934) adhesive joint/Hysol EA 9628 epoxy	L3:V 8 65 10
226	Structures	Composite to composite (1 300/934) adhesive joint/Hysol EA 9628 epoxy	L3IV 8 64 8
151	Sructures	HMF 220C-934 2024-HMF 330C-934 (9628), 250·F	£3111:9.74.AB1 14
150	į	17AF 330C-934 2024 HMF 330C-934 (9628), 250 F	L3III 9 73-AB1 13
159	Siructures	HMF 330C-934-2024 HMF 330C-934 (9628), 250°F	13III 9 72:AB1 12
158	Shuctures.	HMF 330C-934-2024 HMF 330C-934 (9628), 250 F	£3III-9-71-AB1 11
109	_	HMF 330C/934-2024 HMF 330C/934 (9628), 250°F	L3III.9.22.AB1.9
108	_	HMF 330C/934 2024 HMF 330C/934 (9628). 250 F	L3III.9 21 AB1 7
107	Skudures	HAF 330C-934 2024 HMF 330C-934 (9628) 250"F	13HI-9-20 AB1 5
105	Structures	HMF 330C:934 2024 HMF 300C:934 (9628), 250°F	L3HF-9-19 AB1 2
1105 25	Structures	Craphile polyumde:Astroquartz 550-8N fabric	T6V1 13 20 25A
	Siructures	ECCECOMICS	I6VI 13 20 23A
20	Structures	Graphite polyimide/capactive gnd material/ceramic standolf/Astroquari 581	T6VI-13 20 22A
1105 21	Structures	Graphite polymide/Fiberliax paper/Astroquariz 550/Astroquariz 581	T6VI-13-20 21A
ACA	Structures.	Mirror, GY70/201/2024 clad (0/±60')s	T6III 10-8-AL8-8
1070	Structures	Sinp. 1366/polyether sullane/1/02 coaling	T6III-10-223-PS14 2
1016	Structures, thermal	Strip. W-727 (Graphite/Glass fabric)/P1700/ZnO coating	T6III-10-175-PS4-12
1015	_	Strip, W-722 (Graphite/Glass fabric)/P1700/ZnO coating	T6III-10 174-PS4-11
4:01	Structures, thermal	Rivoted tap W-722 (Graphite/Glass tabinc)/P1700, ZnO coating	T6III-10-173-PS6-8
1012	Structures thermal	Sinp. W 722 (Gaphite/Glass labric)/P1780/ZnO coating	T6III:10:171 PS4 10
1101	Spuctures, thermal	Sinp. W-722 (GraphsterGlass tabric):P1700/TiO2 coating	T6111 10 170-PS3-12
966	Structures. thermal	Strip, W-722 (Graphite/Glass 1abric)/P1700/TiO2 coaling	T6III 10:155-PS3:11
995		Strp. W-722 (Gaphite/Glass fabric)/P1700/TiO2 coaling	T6III-10-154-PS3-10
686	Structures, thermal	Rivoted lap. W-722 (Graphite/Glass fabric)/P1700/1:02 coating	T6III-10-148 PS5 8
933		Sing. T300/polyether suffone/TrO2 coaling	T6III-10-107-PS14-1
928	_	Strp. 1300polyether sulfonerZnO coating	T6III 10-99-PS13-2
924		Surp, 1300 polyether sulfone/ZnO coating	T6III-10-98-PS13-1
808	Siructures thermal control	Rivoted lap, W-722 Graphite/Glass fabric/P1700/2nO coating	T6111 10 82 PS6-6
205	Structures, thermal control	Rivoted tap, W-722 Graphite/Glass fabric/P1706/2nO coating	T6III-10 81-PS6-5
806		Sinp. T300 Inter/5208/W-A! Itake coating	T6III-10-78-EP14-1
503	_	Sinp, 1366 fiber/5288/ZnO coating	T6III-10-77-EP15-2
879		Strp. W-722(Graphite/Glass tabric)/P1700/ZnO coating	T6III-10-53-PS4-6
678		Strp. W-722(GraphsterGlass labric)/P1700/2nO coating	T6III-10-52-PS4-5
677		Rivated tap W-722(GraphmerGlass fabric)/P1706/1/02 coating	T6111-10-51-PS6-2
6.76		Rivoted tap W-722(Graphite/Glass fabric)/P1700/TiO2 coating	T6III-10-50-PS5-6
675	875 Structures, thermal control	Strip, W-722(Graphite/Glass fabric)/P1709-2nO coaling	T6III-10-49-PS4-2

200	D. A. Landication	90	Description	Sample 1D
			Sturn W 722/Grandule/Glass Jabrich/P1700/TiO2 coaling	T6111-10-48-PS3-6
9/9			W 722/Cranhide/Glass	T6III-10-33-PS3-4
80 92 92		E L		T6111-10-32 PS3 3
857	_	(herma)	SIND, W. C. Child Spinich Labor Spinich Labo	T6111-10-27-PS5-4
852	Structures.	thermal	Kindled (ap. 1724/applierteass weavey rice to	T6111-10-26 PSS 3
150	Structures	Sheimal control	Findled tap. W /22(Laspfulestains agreem forms	1311 5 16 016
265	Structures	thermal control	Polyphenysodione R 5090 10 mil Union Carbide	138 5 15 6.15
165	Structures	thermal control	Polycatbonale 5 md	4 - C - C - C - C - C - C - C - C - C -
940	Structures.	thermal control	Felzel SOONE, 5 md	130.3.14 (14
539	-	thermal control	Nykon 6/6, 5 md	
479		presonal	Strip. W 7221Graphte/Class Tabric)-P1709/7nO coating	L6III 10 174 PS4 8
		thermal	Rivoted tap W 722(Graphite/Glass tabric)/P1700/ZnO coaling	L6III 10 173 PS6 7
		Enermal .	Strip. W 722(Graphre/Glass fabric/P1100/ZnO coating	16111 10 172 PS4 9
435		therma!	Surp. W 722(Geaphte/Glass fabric)/P1706/ZnO coaung	L6111 10 171 PS4 7
90.		the cms	Sing. W 722(Graphite/Glass fabric)/P1700/1/02 coating	L6111 10 170 PS3 9
C)*		, the state of	Strip W 722/Graphite/Glass fabric/P1700/1/02 coaling	L6111 10 155 PS3 8
01.				L6111 10 154 PS3 7
403		The state of		L6III 10-148 PS5 7
7 6		Theemal	Sing. 1300:P1308/ZnD coating	16111 10 109 PS10
			Serve 1300-01309-1-02 coating	:611 10 107 PS8
7) 15			Courted the 2220 transitional laws P1700/2nd coating	L611: 10 82 PS6 4
326		in the same	Courte by respectively state P170NV7.0 COMING	L6111-10-81 PS6-3
3/25		(Decmai	CADICAL OF THE PROPERTY OF THE	L6111 10.77 EP15 1
120	Structures.	thermal control	Sirip. 130W25UPERIO CAMING	16111 10 65 PS7
309	Structures.	. thermal control	Sirp, 1300/polysatione in Coaling, epsilon meas, 3010	16HL10 53 PS4 4
162	7 Structures	thermal control	Sup. W 722[Graphite/Glass JabncyP17664.nd coating	16H 10 52 PS4.3
295	Structures.	memaf control	Sing. W-722[Graphite/Glass JabucjiP1708/2n0 coaling	1 EII 10 E1 DSE 1
295	Structures.	. thermal control	Rivoted tap W 722Graphse/Glass tabrict/P1700/ZnO coatil.	- 051 15 01 1163
294		thermal control	Rivoled tap W 722(Graphite/Glass fabric)/P1700/TrO2 coaling	L6111-10-50-P55-5
7.63	3 Structures.		Sinp. W-722(Graphie/Glass fabric) "786/ZnO coating	L6111-10-49-PS4-1
290			Strip, W-722(Graphite/Blass Tabric)+*1700/1/02 coating	L6III: 10 48-PS3-5
276		thermy.	Sing. W-722 (Gaphite/Glass fabrici/P1700:1102 coating	[6III-10-33-PS3-2
275			Surp. W.722 (GashuterGlass Jabrick/P1700/1/02 coaling	L6III-10-32-PS3 1
02.4			Ryoted lap. W 722(Graphite/Glass fabric)/P1/700/T/O2 coaling	L6III-10-27-PS5-2
250		(hermal)	Rivoted Lap. W 722(Graphite/Glass Labric)/P1700/1/O2 coating	L6III-10-26-PS5-1
225.6		(Perma)	Composite panel graphite/934 [O2, 145, O2, 145, 90, 0]s. with 3 coalings A276, 2306, S13GLO	13· v
		(hecmail	Potypheny/sulfone R-5000, 10 and Union Carbide	L3H-5-16 C16
u ŕ		The small	Polyczybonate. 5 md	L3N 5-15-C15
· č		Destruit rootes	Telze SOOAE, 5 mai	L311-5-14-C14
u (14 Con 6.6. 5 ms	L3II-5-13-C13
• (Table Street		HALF 330C-934-2024-HALF 330C-934 (9628), 250°F	T3111-9-21-AB2-7
2	3 3000		Gassine defector track distente stativization	T6VI-13-20-24A
1105 24		i i i i i i i i i i i i i i i i i i i	Definite matter Harry Australia	T6VF-13-20-09A
1105 09			December Street Street and Article states HP	T6VI-13-20-08A
1105 08	S inemai com	70,200	Tereship reflector A12073 (0.3255 umt/A0 (0.24 mt/ A1203 (0.0323 umt/ A1 foil	T6VI 13 20 06A
1105 0	1105 Of Thermal Control	CONTEON		

C		Description	Sample 10
		FleenMe settement Attention 1255 umit Anto Sumistatorition 0323 umit 2 mil Kapton	T6VI-13-20-05A
50 501 1		- 1	T6VI-13-20-04A
20 201 4			T6VI-13-20-03A
50 5011		Florible reflector (Penton Steel A)	T6VI-13-20 01A
10 501	1000	- 8	T6V! 5-14 A8
1098	[hermal	White pant 793 11191	T6VI-5 13 A13
2602	freemat.	White paint YB 11 11TRI	T6V1-5 12 A15
1096	Ihermai	Whate parts Eu2C3.RTV 602, MI 101, Air Force Malerials Laboratory	16VI 5 11 A17
1095	Themas control	White pant PV100 1102/sucone resul MI 101, Air Force Materials Laboratory	16VI 5 10 A19
7601	לואישטי בסמינים!	Whele pant DC37 007 I/O2/RTV 3140 Rockwell Int	T6VI-5 9-A21
160.	Internst comest	Ouans labric 581 (AstroquantpTetton FEPIAL General Electric	16VI-5 8 A1
2601	Thermal control	Initian FEPingstreamel, 2 md. Shatdatil	16VI S 7 A 7
1601	Thermal convol	KapisovAi, 5 mil, Sheidahi	16VI 5 6 A11
1090	Thermai control	While pant \$13GLO, 11781	T6VI-5 5 A14
1058	Thermal convol	White part, HS 43G MASA Coddard Space Flight Center	T6VI 5 3 A16
1001	Ingermat control	White part alpha AIZOZHIV 602 MI 101 Au Force Malerals Laboratory	16VI 5 2 A18
1086	Thermal convol	White paint 1:02:41V 602, MI 101, Air Force Materials Laboratory	T6VI-5 1 A20
356	Thermal convol	Black aude coating on 200 stantess steel substrate	T6111-9 128 TC19 4
256	Thermal control	GE SHC, 1010 couring on At substate	16111 9 126 IC17 5
	Thermas control	Vestar coating on At substrate	T6111 9 125 TC15 8
956	Thermal control	JB i black conting on la substrate	T6111-9-124 TC15 2
616	fitermal contol	LMSC modified Corones 931 coating on Ta substrate	T6111 9 123-7C14-9
822	Thermal consol	Biack code coaing on 304 stanless steel substrate	T688-9 6-TC19 3
820	The may convol	GE SHC 1010 coaling on Al substrate	T6111-9-4-TC17 3
619	Ingernat control	Vestar coating on Ai substrate	T6111-9-3-TC16-7
818	Ingenial Control	JB-1 black costung on Ta substrate	T6111 9 2 TC15 25
817	Thermal confrol	1985C modified Cotonics 931 coating on Ta substrate	T6111-9-1 TC14 6
795	Inemas consol	Phodum count giassy carbon substrate	T31V-15-69-Z2
787	Thermas control	letion FEP polymer coating Spraylon 7075	T31V-9-61-TC1
286	Therma' convoi	Teilon FEP polymer coating Sprayfon 7075	T3IV-9-60-TC1
765	Thermal control	Black skoone high temperature paint. Sperex SP 102	T3IV-9 59-TC4
784	Thermal connot	Black siscone high temperature paint. Speres SP 102	T31V-9-58-TC4
763	thermal control	Ceramic coating black HS 4 on 11908	T3IV-9-57 IC8
782	Inermal control	Ceramic coaling black HS 4 on 11900	13IV 9-56-TC8
781	Thermal consol	Ceramic coaling. Black borated solice coaling	T3IV-9-55-TC7
780	Thermal control	Ceramic coaling Nach borated saics coaling	T3IV 9 54 TC7
779	thermal control	Cerative coaling white borated stica	T3IV-9 53 TC6
778	thermal control	Ceramic coaling white borated stica	T3IV-9-52-TC6
111	Thermal control	White skears high temperature paint. Sperex AP.101	T31V-9-51-TC3
276	Thermal control	White skicone high temperature paint Sperex AP 101	T3IV-9-50-TC3
773	Thermal control	Telian FEP polymer costing Sprayon 7075	T3IV-9-47-TC5
212	Ineimal control	Tellon FEP polymer coaing Spraylon 1015	13iV-9-46-TCS
177	Thermal consoli	Polyuminane black pami, Chemglaze 2306	T3IV-9-45-TC13

Č			Sample 1D
		On the base Cheffelore 206	T3IV-9-44-TC13
170	Terest.	POTENTIAL TOTAL CONTRACTOR OF THE PROPERTY OF	T31V-9-43-TC12
169	Thermal control		T3IV-9-42-TC12
768	Intimal convol	Tolynamics action pater.	T31V-9-41-TC11
167	Ingrant	Coalled molybogeness lost scient	131V 9 40 TC11
166	S Thermal control	Coaled molyhderoum for Name	T3IV 9-39-TC10
165	thermal control	Coursed maybaseus a fod P738 later (A203)	131V-9-38-TC10
164	Thermal control	Conted maybdenum (ad/ P218 Idle: [At7UJ]	13W.9.37.TC9
163	Themas consol	Coased molybdenam tokul 49 S/O2	Talv a ag. TCo
162	Tresmal consol	Coated matybdenum halvis fly S/O2.	1314 9 30.103
744	Thermal control	White memal control part \$13GLO:8061 AL HTRI	131V 18 18
	Emerica 2	White thermal compatibation. ST3GLO:6061 At 11ffli	[31V-18 17
073	Thermal.	Back thems control part D11/AL IIFA	W E/ B1 HE1
	S. Property 2	White thermat control gams, vs 71/M, 11fRs	1311-18 72-V1
		Spariered back modum coating on polished molybdenum substrate	T3H-15 71 U1
		Springed black andum coasing on polished molybdenum substraie	1311 15 70 11
440		Source that the days control on published malybdenum substrate	1311 15-69 51
645		Contact and the state of the st	T311 15 68 R1
544		trademy has branched and 19. E. 1108 to Minmillion substitute	T3II 15 67-01
673	Therm!	Supplies the supplies of the s	13H 15-66-P1
647	2 Thermal consol	MACRONIA CON CONTROL OF THE PARTY OF THE PAR	T311 5 44 A22
229	C thermal control	While pant DC92 001 1023st 4 3:40, 100 Zen un	T311 5 43.A21
619	Chermal control		T311.5 42.420
618	frems conto	Whate pant 1602/filly 602, M. 101 Au Force Materials Laboratory	Tall 5.41.419
617	7 Ingras control	White pant, PV100 TiO2/sukcone resp. M. 101, Air Force Malenais Laboratory	0.4.0.0.00
919	Snermal.	White paint, aigha Arzchriv 602, Mi 101. Air Foice Materials Laboratory	1311-5-40-A18
	Thermal control	White part, Euglichtiv 602, AR.101. Au Foice Maierais Laboratory	1311-5-35-A17
	Thermal	White part, ItS 43G, FUASA Coddard Space Fught Center	T3II-5-34-A16
2		White owns YB 71, 11830	T311 5 33 A15
609		ILLE OF COMMENT	T3H 5 32-A14
209	_	I GALL BURGE THE STATE OF THE S	T311-5-31-A13
60 3		STATE CONT. CASE TO THE PROPERTY OF A STATE OF THE PROPERTY OF	T311-5 30-A12
909		CONTRACTOR OF THE CONTRACTOR O	T311-5 29 A11
605		of the state of th	T311-5 28-A10
9 09			T311 5.27.A9
603	to the control		T311-5-26-A8
£09	The man control	MINOS PER MANUSCRIPT AND ASSESSED ASSESSEDANCE ASSESSED ASSESSEDANCE ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESS	T311-5-25-A7
109	It Thermas control	Tellon Filth/Agracones, 2 ms. Sheroush	1011 6 22 46
668	19 Thermal control	Black pant, Ditt. wift	13H-5-23-A5
805	Inermal.	Indown In audertation FEP/Agintonei, 2 mil. Sheldahi	T3H-5-22-A4
40%	_	Porceton enemes on At. NASA Marshall Space Fight Center	T311-5-21-A3
202	_	Indium in onderfelos FEP/Agibronel, 5 md. Sheldahi	T311-5-20-A2
		Quartz Jabric 58# (Astrocuartz) Telton FEP1A1, General Electric	T3H-5-19-A1
7.60	_	Tellor FEP Size A. S mil	T311-5-5-C5
Ä		Mantonia, S. mid. Shekati	T311 5-4-C4
ř		Kapignish, 1 md, Sheldasi	T3II-5-3-C3
ñ			

0		Description	Sample 10
	Chinasan as a catalogue	Tellon FEP:Assincones 5 md, Shekkirki	T311-5-2-C2
5 1		Talen Felinatures 2 ms. Shaklan	T3II-5-1-C1
275		White name Provides (ADS/RIV 3140 Rockwell in	L6VI 5-43-A22
547	-	White they broken 1000014 3140 Bockers (of	L6VI-5-42-A21
25.	_		L6VI 5 41 A20
240			L6VI-5-40 A19
615	-		L6VI-5-39-A18
538	_		L6VI-5 38 A17
205	Treeman.	CHAIR DEST RECEMBER OF THE CO. THE COST SECTION OF THE COST SECTION OF THE COST OS THE COST OF THE COS	L6VI 5 37 A16
536	from a canal	Where parts, New Action Constitute apparer rights Constituted	16VI 5.36 A15
315	Freemat control	White paint will 7 to 11 to 12	16V1 5 35 A14
765	therman control	Whate dans Stade 2 little	; ;
533	(Reports Control	Winds part 29.3 11781	CON 100 11101
537	transmit consol	InJOINAppoint 5 ms. Ceneral Electric	L6VI 5 33 A12
\$231	Thermal control	Kadional, 5 mil Staldati	16VI:0 37 A11
230	(hermy control	Kapadanak 1 mal Shekane	L6VI-5 31 A10
673	***	both terion fermannenes. S mai General Freding	L6VI 5 30 A9
46.3	_	toking tepologinesnot 5 and Shektabi	16VI 5 29 A8
ניי	-	lotten febraginasmet 7 me Skeetska	16VI 5 17 A7
613	-	Grack paint (1911), 18163	L6VI 5 13 A5B
	-	indium in orderieton (FPungilacane). 7 and Streidard	L6VI 5 12 A4
		Porceine enumes on al fixes Mushab Souce fught Center	L6VI 5 11 A3LC
	-	Indiam for andertellon FEP-Agilicants. S and Sheidahi	L6VI 5 8 A2
	-	Outsit labor 581 (Astroquarity/Tellon FEP/A) General Electric	L6VI 5 7 A1
0 7	The small	Scholege steps substante black ande conting	16111-9 128 1019 2
		A. cohorate/CE SHC 1010 contains	L6III-9-127-TC17-2
		A: substruction conting	L6III-9-126-TC16 5
		1. s. dectains IR t Mack contino	16III 9-125 TC15 24
25.9		To expensed MAC modeled Country 931 costmo	L6HF-9-124 TC14 5
166		The sounds assessed as the second as the sec	L6111-9-8-TC19 1
244	E Fred	Chapter Contract of the Statement water and the Contract of th	L6111-9-4-TC17-1
240		thanks one and the chartens	16III 9 3 TC16 4
602		Minches Constitute on the Authorities	16111 9.2 TC15.21
238	TE SELECT	LEFT DESCRIPTING ON THE SUPERIOR OF THE SUPERI	16III.9-1-TC14 4
¥0.4		Don't am ownered aftern profession of the contract of the cont	L31V-15-69-71
731		throughout tourists years from the contract of	L31V-9-61 TC5
223		ACTION OF THE PROPERTY OF THE	L3IV-9 60 TCS
222	The state of	Lender Ferr Dograms Continued abrevious CO 100	L3IV-9-59-TC4
221			1 31V.9.5R. TC4
220		or temperature patrol	1 21V.9.57.TCA
219	Thermal control		1314.9.37.100
218	Thermas control	_	L31V-9-56-1C6
217	Thermal contain		L3IV-9-55-1C/
216	Inpimal conto	_	13145.8:34:101
215	Thermal control	Cesteric coating whise because suica	131V-9-53-1C6

080	OBSTRANION	Description	Sample 10
214	Themal control	Cetaric colling white botated sizes	L3IV-9-52-TC6
	_	ght temperature paint Speres AP 101	L3[V-9-51-TC3
212	_		L31V-9-50 TC3
200			13IV 9 47 TC1
802	thormal connor	letten fifty commer country Sprayfon 1015	131V-9 46 1C1
20%	Thomas consel	Porgressions black gains Chemiglare (2)36	(31V 9 45 TC13
206	Thermy contest	Popuredune Wash samt Chemylare 2006	L3IV-9 44 TC13
205	Thermal Control	Polytrediane white paint Chemplate A27641	L3IV-9-43 TC12
204	thermigh contract	Polymentary whee paint Chemplare A27641	L31V 9-42-1C12
203	Themat comes	Contest maybeforeum law Salts	131V 9 41-7C11
107	thermal compos	Course material tota Salts	131V 9-40 TC11
102	Treimes control	Calend maybanness taw P230 (dee (A/203)	L31V 9 39 TC10
250	Treinigh control	Coased mathodonum tode P238 later (A1203)	L3fV-9 38-TC10
199	[Dermy] control	Casing malablemen laws by 5:02	L3IV 9 37-TC9
*57	frama! conso	Cased mattadenum tails 4s SO?	131V-9 36 TC9
091	Thermal control	White meant comed past Stack Decel At 11181	131V 18 18 2
6/3	Internal county	White thermal control pant, S13010-6061 A. IIIRI	L 31V · 18 · 17 · 1
:=	framat consol	Spatement than comme couring on molydenum substant	1 3 1 1 5 7 9 N 1
90	Inemal contrat	Black glack coaling on molybeanim substitue	13H 15 78 M1
65	thermal control	Spylered Dack Chemie coasing on molybdenien substrate	13H 15-77 L1
46	Thermal convox	Southered that thodown coaling on molybdenim substrain	1311:15 76:4
ن 43	Treimst control		L3II 18 73 H1
00	Thermal control	White theimse control psent, VI 71.001, 11801	L311-18 72 G1
19	Trems! control	Black chrome coasing on molyddenim substrate	£311-15-71-F1
7.8	Treimal control	Spatiered black excuss coating on polished molybdenum substrate	1311 15 70 E1
11	fremal contor	Spatiered black abdum contang on polished molybdenum substrate	L34-15-69-D1
16	Thermas convol	Pokshing malydidensam meiod	138-12-68 C1
15	frems como	bedium for booksed with DC 6 1104 to aluminim substrate	L3II-15-67-B1
7.4	Inermal control	Rhodoum tot bonded with DC 6-1104 to aluminum substrate	L3II-15-66-A1
52	Insimal control	White paers, OCS2 007, InO2ATV 3140, Rockwell int	1311-5-44-A22
5	treimst conside	White paint, OC92 067 GODRIV 3140, Rockwell Int	L3II-5-43-A21
03	Insumal convet	White paint 1:02:RIV 602, M.101, An Force Malenais Laboratory	L311-5-42-A20
67	Thermal connel	alory	L311 5-41-A19
87	thermal control	White pami, aight highliff 602, Mills!, Au Force Malenals Laboratory	L311-5-40 A18
13	Thermal control	White pant. Eu2OURIV 602, M. 161, An Force Materials Laboratory	L3II-5-35-A17
4.5	Thermal control	Whee paint, NS 43G, MASA Goddad Space Fught Center	L3II-5-34-A16
-	Thermal control	While paint, YB-71, UTA	L3II-5-33-A15
9	Therman control	Whate paint, Stack C, Hitch	L3II-5-32 A14
67	Thermal control	White part. 253, HTGs	L311-5-31-A13
36		eneral Electric	L3II-5-30-A12
37	Thermal control		L311-5-29-A11
36			L3II-5-28-A19
35.	Thermal control	in XXII fellan if Philaphiconel. 5 md. General Electric	L3H 5.27 A9

-		Description	Sample 1D
			L311-5-26-A8
35	finermal control	TENON FEW AGENCY OF THE CONTRACT OF THE CONTRA	L3II-5-25-A7
33	3. Thermal control	Telion FEVAgracone, 2 mm. Suestoan	L311-5 23-A5
Ä	t thermal convol	Biack pant, Datt, OTRI	L311-5-22-A4
30	O Thermal control	Indusm I'm oxider Teflon FEP/Agrinconel, 2 mil. Sheadan	13H-5 21 A3
56	Internal control	Porceton enomed on Al NASA Marshall Space Flight Center	1311.5.20.A2
		Ind.um In orde/Indon FEP/Agincone! 5 mil. Sheldan	1311 5 10 41
. *	Unermail	Quart labric 581 (Astroquartz) Tellon FEP-At General Flectric	1
; :	-	letton FEP type A. 5 md	1311 5:5 5:5
) t (w) 1	KaptowAi S mi Sheldahi	[3][5-4 C4
<i>:</i>		Kanton-M. 1 mi Shelahi	1311 5-3-03
± (1	Jetton FEPt-Rotinconel 5 md. Sheldahi	L3II-5 2-C2
2 (letton FEP/Agrinconer 2 ms. Sheldah	1311 5 1 C1
•		Rizak chame casing or merphenum substrate	T3II-15 65 O1
179	Onno Manager	lakes CEO anternation their	L31.20·1
2004		service and the service of the servi	T610 9 127 TC18 4
653	Intermit control	LOUD LANGUAGE TO THE RESIDENCE OF THE PROPERTY	f6III 9 5 TC18 3
12.3	Ingenial control	Control of the state of the sta	13IV 9 49 IC2
211	S Thermal control adherine bond	Stietone paint Deach whiching are not	131V 9 48 1C2
174	4 Thermal control adherive bond	SACONE pant black vacuum disuled HIV buz	1311 5 12 612
100 M	S Thermal control adhesive band	terion FEP:Agrinconel (5 mil)NATO IIIC:Kapton; 8 5 mil	110 11 2 1161
	_	fetton FEP:Agrinconel (5 md):V9K6/Kapton (5 md)	100000000000000000000000000000000000000
202	Insems consid	Tebon FEPIAginconel (5 md)/RTV 560+12% graphite/Al/Kapton (5 mil)	1311 5-10-010
	Insering control	leton FEP/Aginconel (5 ms/RTV 560+12%, graphite/Kapion (5 mil)	13H 5 9:C9
* *	Thermal cooking	Jenon FEPIAginconel (5 md)ARTV 560+12% graphite/Kapton (5 mil)	1311 5-8 C8
	Thermal cooling	Felion FEP/Agricconel (5 ms)/RTV 560+12% graphite/Kapton (5 ms)	1311.5.7.C7
		letton FEPriAgrincong (5 milyEccobond 57C/Kapton (5 mil)	1311 5 6 C6
200	in the state of th	Factor (ADRESCONT) bonded to At with Isolack V9469	L6HI 9 129 TC18 2
171	Portuga Control	Factor ALTHRESONN 11 bonded to Al with Isolack Y9469	L6III.9.7.TC18·1
74.7	President Consol	Change man Mack vacuum distilled RTV 602	L31V-9-49-TC2
	INCHES COURCE, SCHOOL STATE	Charge parts Nach vacuum distilled RTV 602	L3IV 9-48-TC2
210	Ingering Country, Somewhere	Teston Espokednessed 15 militara 10 HIC/Kapion, 85 mil	1311-5-12 C12
•		Tebre FFP/Authone (5 md/Y966/Kapton (5 md)	1311 5 11 C11
- 1	The second control of	Telon FEPAAntaconel (5 mdyATV 560-12% graphite/AlfKapton (5 mil)	L3II-5-10-C10
- 1		tean FEP/Anthone (5 mil) 12 Sep. 12% graphite/Kapton (5 mil)	L3H 5-9 C9
- 1		Teston FEP/Actingmet (5 mil/8TV 560+12% graphite/Kapton (5 mil)	L3II-5-8-C8
- '	-	Takes EFEMentanement is malifely 550+12% graphite/Kapton (5 mil)	L3II-5-7-C7
-	-	Takes Explanational IS military (5 mil)	L3II-5-6-C6
_	14 Thermal control, adhesive bond	Texas reserved to any animal section of the System	D8-Sunshield
2003	_	Compare Act o passed on sussing and sussin	D8-SCU Cover
2002	02 Thermal control, hardware	SING Practice At Dots covering signal consequently unit	D4-Sunshield
2001	Or Thermal control, hardware	Chemitate A276 painled Al sunshing Covering Experiment roater and Data System	D4-SCU Cover
200	2000 Thermal control, hardware	SISCIO parated At box covering signal conditioning unit	TeVI 6 31:11
11	tios Thermal control, hardware	Agriefon FEP covered cassette holding 11 sun pumped laser coatings	TEVE 13:20.A
11	1105 Thermal control, hardware	Agreton FEP covered aperture plate on cassette containing 25 optical samples	0 4 V C C C 1 A D L
9	628 Thermal control, hardware	Agitetion FEP covered cassette holding 26 laser communication coatings and oplical malerials	0.0001.20.00.1101

080	OB Application	Description	Sample ID
1	Physical Control Parison	Acvieton FEP covered casselle contaming 11 sun pumped laser coatings	T311-6-51-111
//		Anti-Pro FED consent excelle bolding laser communication components	L6VI-6-14-IV
2.4	The the control of th	Antiette FEP covered cassette holding 9 laser communication felectors	L3II-6-51-V
		Soin absorber Black chrome on reckel foil	T6VI-13-20-11A
11 6011		Flasche mino: Dietecting Stack, Ni203/Ag/Kapton	T6VI 13-20-10A
60.		Au mirrorral	T6VI 5 19·B3
5 6		Opical Solar Reflector OCH St 100	T6VI-5 18 B1
201		Opical Solar Reflector OCLI SI 100 with conductive coaling	T6V1-5-17-B2
		A) murovglass	T6V1-5-16-84
500		Ag mirror/Al	T6V1 5-4-85
6.15		Ag murgu'Ai	1311 5 39.86
919		Ag mirroith!	1311 5 38 85
213		A) mirrorigiass	T311-5-37 B4
		Au mireoriAl	1311-5-36-83
765		Optical Solar Reflector, OCLI SI 100 with conductive coaling	T311 5 18 B2
103		Opical Solar Reflector, OCLI SI 100	1311 5 17 81
423		Opical Solar Reflector, OCLI St. 100 with conductive coating	L6Vi-5 28 B2
525		Au mirrorAi	L6VI 5.26-83
765	thermal conirol, coircs	Ag muscuski	16VI 5 25 B5
223	CAT Thermal control opines	As mirrorigiass	L6VI 5 24 B4
522	Ingermal control, opines	Optical Solar Reliector OCLI SI-100	L6VI-5-23 B1
47	47 Inermat control, optics	Ag miror/Ai	L3H 5-39-86
7	A E Ingras control cource	Ag mureriki	1311-5-38-85
57	Thermal control, opics	Al mirrorigiass	L311-5-37-B4
***	thermal control optics	Au missosial	L3H 5-36-83
26	of Thesmal control opins	Opical Solar Reflector, OCI I ST 100 with conductive coaling	L3II-5-18-B2
52	PS [thermat control optics	Opinizal Solar Refrector, OCLI SI 100	£311.5-17-B1

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